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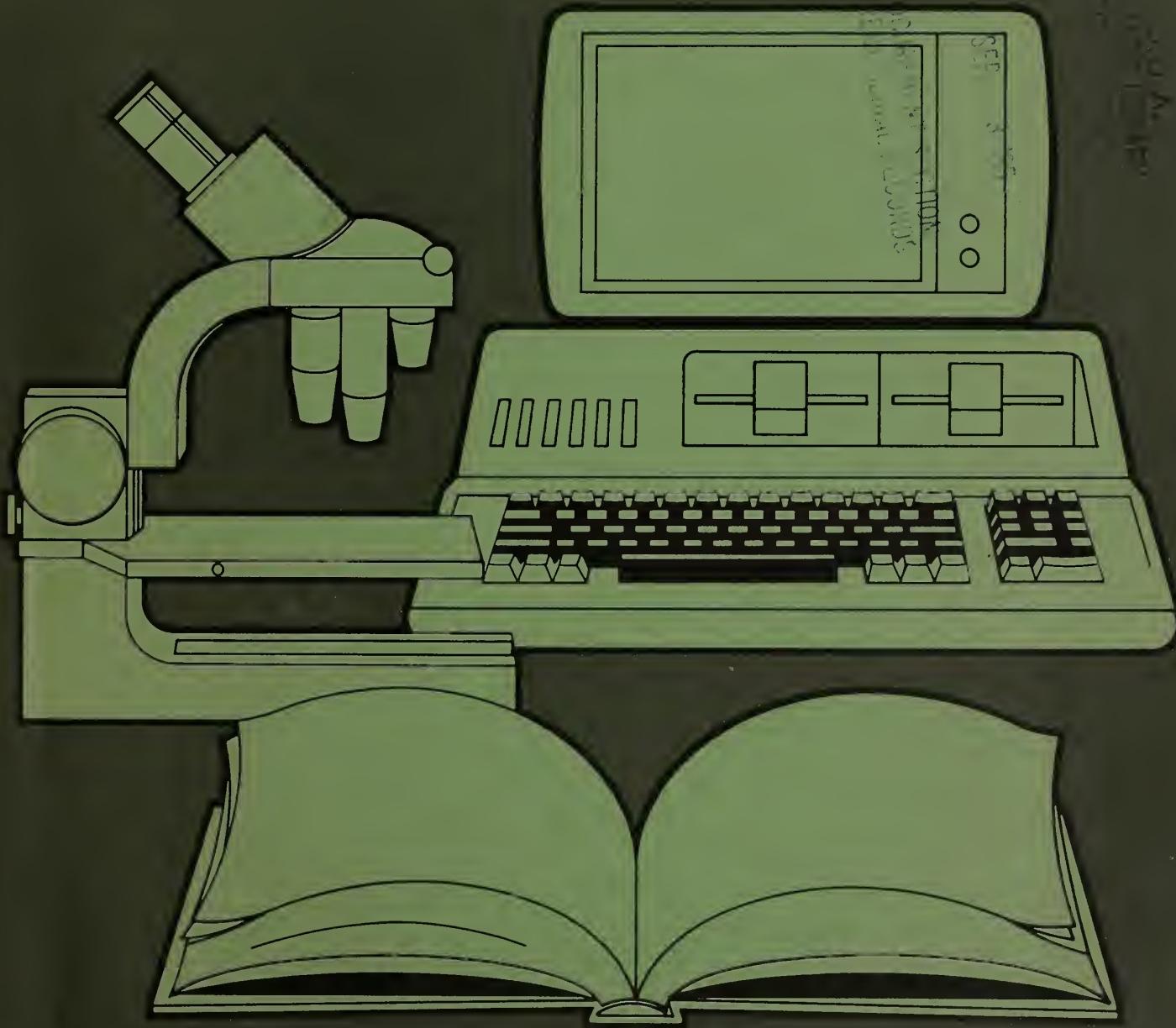
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The Protection of Soybeans, January 1980-November 1984

Citations from Agricola Concerning Diseases and Other Environmental Considerations



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The Protection of Soybeans, January 1980-November 1984

**Citations from Agricola
Concerning Diseases and
Other Environmental
Considerations**

Compiled by
Charles N. Bebee
National Agricultural Library

Bibliographies and Literature
of Agriculture Number 38

United States Department of Agriculture
National Agricultural Library
Beltsville, Maryland 20705

and

United States Environmental Protection Agency
Office of Pesticide Programs
Washington, D.C. 20460

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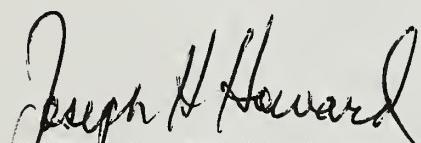
FOREWORD

This is the second volume in a series of commodity-oriented environmental bibliographies resulting from a memorandum of understanding between the United States Department of Agriculture, National Agricultural Library (USDA-NAL), and the Environmental Protection Agency, Office of Pesticide Programs (EPA-OPP).

This close working relationship between the two agencies will produce a series of bibliographies which will be useful to EPA in the regulation of pesticides, as well as to any researcher in the field of plant or commodity protection. The broad scope of information contained in this series will benefit USDA, EPA, and the agricultural community as a whole.

The sources referenced in these bibliographies include the majority of the latest available information from United States publications involving commodity protection throughout the growing and processing stages for each agricultural commodity.

We welcome the opportunity to join this cooperative effort between USDA and EPA in support of the national agricultural community.



JOSEPH H. HOWARD, Director
National Agricultural Library



STEVEN SCHATZOW, Director
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INTRODUCTION

The citations in this bibliography are selected from works by U.S. authors on all aspects of the protection of soybeans from diseases, insects, nematodes, chemicals, or other environmental conditions which affect the yield and quality of this commodity. All citations are derived from AGRICOLA (AGRICultural OnLine Access), the master bibliographic database compiled by the National Agricultural Library for its 1.8-million-volume collection.

This is the second bibliography in a series jointly sponsored by the National Agricultural Library, United States Department of Agriculture (USDA-NAL), and the Office of Pesticides Programs, Environmental Protection Agency (EPA-OPP). Additional volumes planned in the immediate future will concern protection of cotton, wheat, grain sorghum, rice, peanuts, and tobacco.

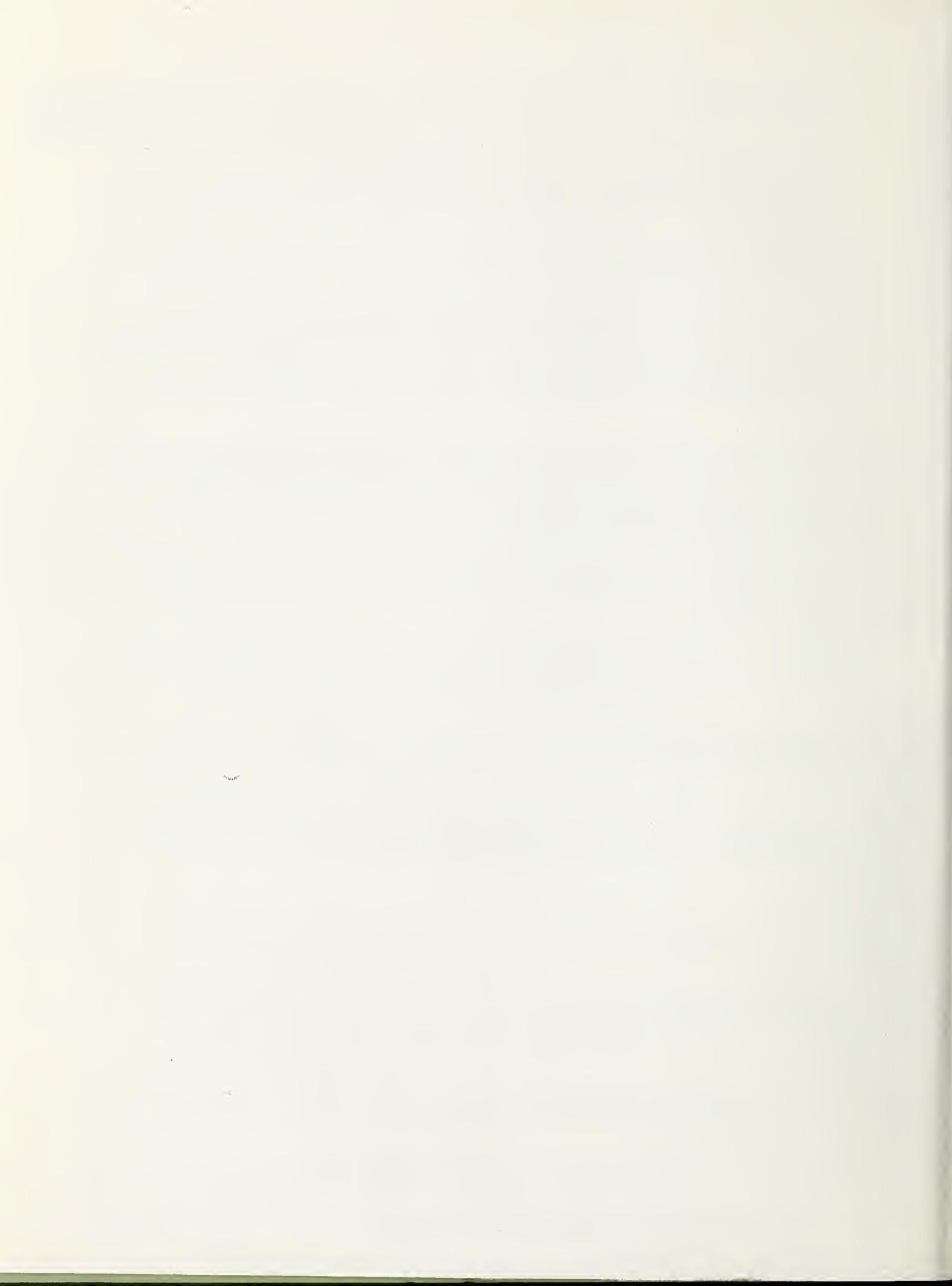
Entries in the bibliography are subdivided into a series of subject headings used in the table of contents of the Bibliography of Agriculture and in the National Agricultural Library Catalog. Each citation appears under the subject heading assigned to the particular item. A complete author index is also included in the publication.

The Office of Pesticide Programs, EPA, has furnished technical assistance to the compiler through members of a commodity-oriented environmental data team which included:

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Any comments or questions may be forwarded to the compiler:

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Paul, American Phytopathological Society. Plant
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Board, J.E. Baton Rouge, La., The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1982. 1982. p. 107-111. (NAL Call No.: 100 L936).

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Backman, P.A. Crawford, M.A.; Hammond, J.M. St. Paul, American Phytopathological Society. Plant disease. Jan 1984. v. 68 (1). p. 44-46. Includes references. (NAL Call No.: 1.9 P69P).

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Relationship between weather and soybean seed infection by *Phomopsis* sp. (*Glycine max*). TeKrony, D.M. PHYTA. Egli, D.B.; Stuckey, R.E.; Balles, J. St. Paul : American Phytopathological Society. Phytopathology. June 1983. v. 73 (6). p. 914-918. Includes references. (NAL Call No.: 464.8 P56).

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Bailey, Z.E. Ames, Iowa, The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1982. v. 9. p. 109-111. ill. (NAL Call No.: aSB205.S7S6).

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0013

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Dick, Billy A. 1968. Extension Repository Collection ~Typescript ~"A project in agricultural extension education submitted to the College of Agriculture, University of Georgia, in partial fulfillment of the requirements for course credit in Agricultural Extension 921.". ix, 35 leaves ; 29 cm. Bibliography: leaves (30)-31. (NAL Call No.: S544.3.G4D5).

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0014

The farm pesticide industry.

Eichers, T.R. Washington, D.C., The Department.
Extract: The primary objective of this study is
to analyze the nature of the pesticide industry
by smaller component markets (submarkets) and
evaluate its structure, conduct, and
performance. The study also examines some of
the implications of pesticide regulations on
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0015

The contribution of herbicides and other technologies to soybean production in the Corn Belt Region, 1965 to 1979.

Schroder, D. Headley, J.C.; Finley, R.M. Columbia, Missouri, The Department. Extract: This report attempts to identify the contributions of technology and weather to soybean yield variation for the period 1965 to 1979 in the Corn Belt Region. Technology variables included were genetic improvement, herbicides, and row-width. A pooled cross-sectional time-series data base was used to estimate regression parameters for herbicides and other variables. A marginal private benefit/cost return of \$2.3 per dollar of herbicide cost was estimated for additional land treated with herbicides. Paper - University of Missouri-Columbia, Dept. of Agricultural Economics. (1981?). (1981?). (1981-83). 25 p. 35 ref. (NAL Call No.: 917437(AGE)).

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Reis, R.P. Noel, G.R.; Swanson, E.R. Urbana, Ill., The Department. Extract: In this report we illustrate the economic logic of analyzing various control methods for soybean cyst nematode. They are: soybean variety, crop sequence, use of a nematicide, and fertilization. Unfortunately there was no single experimental data base which had considered all of these control methods and the potential interactions among them. Consequently it was necessary to synthesize from various sources a set of soybean yield data reflecting the yield consequences of the various control measures. Illinois agricultural economics staff paper, series E, agricultural economics - Dept. of Agricultural Economics, University of Illinois. Dec 1981. Dec 1981. (81 E-203). 17 p. 12 ref. (NAL Call No.: 916937(AGE)).

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Schmidt, K.M. Swanson, E.R. Urbana, Ill., The Department. Extract: Three methods were used to evaluate the impact of cancellation of the registration of DBCP as a nematicide on the 1,830,000 acres of soybeans treated with DBCP in 1977. The first two methods specified use patterns for substitutes and also made specific assumptions about the relative efficacy of the nematicides. Economic impact estimates were made without ethylene dibromide (EDB) as an alternative and with EDB as an alternative. Illinois agricultural economics staff paper, series E, agricultural economics - Dept. of Agricultural Economics, University of Illinois. Apr 1981. Apr 1981. (81 E-161). 51 p. 51 ref. (NAL Call No.: 916937(AGE)).

0018

Economic benefits of breeding host plant resistance: a simulation approach.

Zavaleta, L.R. Kogan, M. Fargo : North Dakota State University. Extract: Economic benefits to be obtained from breeding resistance in soybean host plants are explored and measured for two modalities of antibiosis. Varieties with lower levels of mortality were found to be most useful in the presence of low insect populations. For medium populations, effective control was obtained only for varieties with high mortality levels. The effects of delays in the rate of development of the insects were comparable to some of the effects obtained with induced mortality. North Central journal of agricultural economics. Jan 1984. v. 6 (1). p. 17-27. Includes 17 references. (NAL Call No.: HD1773.A3N6).

0019

The farm pesticide industry.

Eichers, T.R. Washington, D.C., The Department. Extract: The primary objective of this study is to analyze the nature of the pesticide industry by smaller component markets (submarkets) and evaluate its structure, conduct, and performance. The study also examines some of the implications of pesticide regulations on the pesticide industry and on farm pesticide use. Agricultural economic report - United States Dept. of Agriculture. Sept 1980. Sept 1980. (461). 24 p. 39 ref. (NAL Call No.: A281.9 AG8A).

0020

Preliminary benefit analysis of captan for seed treatment of corn, small grains and soybeans.
Grube, A.H. Urbana, Ill. : The Department. Extract: This report is a preliminary benefit analysis of the fungicide captan used as a seed treatment on corn, soybeans, sorghum, wheat, barley, oats and rye. This analysis is intended as input to the risk/benefit decision by the Administrator of EPA as to the continued registration of captan under the Federal Insecticide, Fungicide, and Rodenticide Act. Illinois agricultural economics staff paper, series E agricultural economics - University of Illinois, Department of Agricultural Economics. Oct 1982. Oct 1982. (E-238). 201 p. Includes 325 references. (NAL Call No.: 916937(AGE)).

0021

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Grube, A.H. Urbana, Ill., The Department. Extract: This report is an economic impact analysis of the use of PCNB (pentachloronitrobenzene) as a seed treatment for small grains and soybeans. The information presented in this report corresponds to a specification of requirements for an economic

impact analysis that appeared in the Federal Register, Vol. 41, No. 102 (Appendix IB) on May 25, 1976. The Notice requires that the preliminary analysis identify the major and minor uses of the pesticide, estimate the quantities utilized, identify the registered alternatives and their availability, determine the change in pesticide costs associated with the use of alternatives, and evaluate the regulatory impact upon crop production and retail prices. This analysis focuses on the uses of PCNB as a seed treatment on soybeans, wheat, barley, oats and sorghum in terms of active ingredients applied per year. Illinois agricultural economics staff paper, series E, agricultural economics - Dept. of Agricultural Economics, University of Illinois. Apr 1981. Apr 1981. (81 E-160). 109 p. Bibliography p. 92-105. (NAL Call No.: 916937(AGE)).

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ECONOMICS OF AGRIC. PRODUCTION

0026

The contribution of herbicides and other technologies to soybean production in the Corn Belt Region, 1965 to 1979.

Schroder, D. Headley, J.C.; Finley, R.M.
Columbia, Missouri, The Department. Extract:
This report attempts to identify the contributions of technology and weather to soybean yield variation for the period 1965 to 1979 in the Corn Belt Region. Technology variables included were genetic improvement, herbicides, and row-width. A pooled cross-sectional time-series data base was used to estimate regression parameters for herbicides and other variables. A marginal private benefit/cost return of \$2.3 per dollar of herbicide cost was estimated for additional land treated with herbicides. Paper - University of Missouri-Columbia, Dept. of Agricultural Economics. (1981?). (1981?). (1981-33). 25 p. 35 ref. (NAL Call No.: 917437(AGE)).

0027

Modeling soybean growth for crop management (Irrigation and pest management decisions, SOYGRO).

Wilkerson, G.G.TAAEA. Jones, J.W.; Boote, K.J.; Ingram, K.T.; Mishoe, J.W. St. Joseph : The Society. Transactions of the ASAE - American Society of Agricultural Engineers. Jan/Feb 1983. v. 26 (1). p. 63-73. ill. Includes references. (NAL Call No.: 290.9 AM32T).

FARM ORGANIZATION AND MANAGEMENT

0028

Application of a simulative approach to evaluating alternative methods for the control of agricultural pests.

Reichelderfer, K.H. Bender, F.E. Lexington, Ky., American Agricultural Economics Association. Extract: A microanalytic simulation model of the interrelationships among Mexican bean beetle pest populations, populations of wasps that are parasites of the pest, chemical control inputs, and soybean yield is presented. Points from output response surfaces obtained through simulations of alternative biological and chemical pest control strategies are utilized in conjunction with cost data to construct benefit-cost ratios for each intraseasonal control option studied. Comparison of ratios indicates that biological of the pest is, by benefit-cost criteria and from both private and social perspectives, a competitive alternative to chemical control. American journal of agricultural economics. May 1979. v. 61 (2). p. 258-267. 19 ref. (NAL Call No.: 280.8 J822).

0032

An economic evaluation of weed control methods used in combination with crop rotation: a stochastic dominance approach.

Zacharias, T.P. Grube, A.H. Fargo : North Dakota State University. Extract: Experimental results from a 10-year herbicide use and crop rotation study provided the data for an analysis of weed control cropping systems. Stochastic dominance was used to rank the various systems. Results indicate that regardless of weed control method a rotation of two years corn and one year soybeans was the most preferred. Systems which substituted cultivation for herbicide use were least preferred. Successively altering herbicides on an annual basis as compared to applying a single major herbicide was found to increase both net returns and risk and would be preferred only by growers who were mildly risk preferring. North Central journal of agricultural economics. Jan 1984. v. 6 (1). p. 113-120. Includes 9 references. (NAL Call No.: HD1773.A3N6).

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0030

Economic benefits from the use of nonchemical means of pest management: a simulation approach.

Zavaleta, L.R. Kogan, M. Urbana, Ill. : The Department. Extract: The scope of this paper is to analyze the potential economic benefits that can be derived from the development and use of nonchemical methods of control. Its focus will be placed in the soybean crop and its interaction with an insect pest, the bean leaf beetle, *Cerotoma trifurcata* (Coleoptera: Chrysomelidae). Illinois agricultural economics staff paper, series E agricultural economics - University of Illinois, Department of Agricultural Economics. Sept 1982. Sept 1982. (E-233). 17 p. Includes 21 references. (NAL Call No.: 916937(AGE)).

0034

Economic impact of registration of ethylene dibromide (EDB) for use on soybeans.

Schmidt, K.M. Swanson, E.R. Urbana, Ill. , The Department. Extract: Estimates of the economic impact of federal registration of EDB for use as a nematicide on soybeans were developed for two scenarios. Scenario I assumes that EDB is limited to soybean acreage presently treated with other fumigant nematicides. This limit was removed in Scenario II to allow EDB to be substituted for both fumigants and systemic nematicides. The total welfare impact in terms of changes in producers' rents plus consumers' surplus was estimated with a simulation model (AGSIM). These impacts were measured by the present value of an infinite series of future changes resulting from the registration of EDB. Estimated present value of the total welfare gains from the Section 24(c) exemptions is about 700 million dollars with approximately an additional one percent gain from a nation-wide registration. Illinois agricultural economics staff paper, series E agricultural economics - Dept. of Agricultural Economics, University of Illinois. Apr 1981. Apr 1981. (82 E-218). 87 p. Bibliography p. 69-87. (NAL Call No.: 916937(AGE)).

0031

An economic engineering study of commercial grain storage in South Carolina (Corn, wheat, soybeans, costs and returns).

Shedd, D.T. SCAEA. Miller, S.E. Clemson : The Station. Bulletin - South Carolina Agricultural Experiment Station. July 1983. July 1983. (649). 18 p. Includes references. (NAL Call No.: 100 S08 (1)).

(FARM ORGANIZATION AND MANAGEMENT)

0035

Economic losses due to weeds in soybeans in the Northeastern United States in 1977.
Parochetti, J.V. Beltsville, Md. Proceedings of the ... annual meeting Northeastern Weed Science Society. 1979. v. 33. p. 44-47. ill. (NAL Call No.: 79.9 N814).

Agency bans on the use of selected corn and soybean pesticides commonly used in Indiana and elsewhere in the Corn Belt. Station bulletin - Dept. of Agricultural Economics, Agricultural Experiment Station, Purdue University. Sept 1980. Sept 1980. (291). 119 p. 19 ref. (NAL Call No.: HD1775.I6I5).

0036

An economic threshold model for weeds in soybeans (Glycine max) (Herbicide application).
Marra, M.C. WEESA. Carlson, G.A. Champaign : Weed Science Society of America. Weed science. Sept 1983. v. 31 (5). p. 604-609. ill. Includes references. (NAL Call No.: 79.8 W41).

0040

Income and risk associated with various pest management levels, tillage systems, and crop rotations: an analysis of experimental data.
Zavaleta, L.R. Eleveld, B.; Kogan, M.; Wax, L.; Kuhlman, D.; Lim, S.M. Urbana, Ill. : The Department. Extract: Budgets for producing and protecting corn and soybean crops were generated for three cropping systems using three levels of pest management and two tillage practices. The corn-soybean rotation produced higher yields and higher net returns than either the continuous corn or soybean cropping system, and it generally had the lowest risk for any of the tillage systems at each management level. Neither conventional nor reduced tillage appeared to dominate; neither did high, medium, or low chemical input dominate. AERR - University of Illinois, Department of Agricultural Economics. Apr 1984. Apr 1984. (191). 19 p. Includes 10 references. (NAL Call No.: 281.9 IL62).

0037

Farm efficiency and insect infestation forecasts: the case of soybeans in Illinois.
Moffitt, L.J. Farnsworth, R.L.; Zavaleta, L.R.; Kogan, M. Washington, D.C. : The Service. Extract: A preposterior decision model and a scouting model are used to estimate the economic benefits of an area-wide soybean insect prediction system in Illinois. Results suggest forecast reliabilities of the insect prediction system must exceed 90 percent accuracy before grower profits increase and acres scouted by consultants decrease. Insecticide use, however, can increase or decrease over a range of forecast reliabilities because of the shift from insect consultants to an area-wide public supported insect prediction system. If risk averse behavior is assumed, growers will likely apply more insecticides and hence reduce forecast prediction benefits. ERS staff report - United States Dept. of Agriculture, Economic Research Service. Oct 1982. Available from NTIS, order no. PB83-128728. Oct 1982. (AGES821013). 31 p. Includes 15 references. (NAL Call No.: 916762(AGE)).

0041

Indiana farm-level impacts of possible Environmental Protection Agency bans on selected soybean insecticides.
Cashman, C.M. Martin, M.A.; McCarl, B.A. Lexington, Ky., Southern Agricultural Economics Assoc. Extract: The primary purpose of our study was to determine the economic impacts of a possible ban by the Environmental Protection Agency on selected soybean insecticides used by some farmers in Indiana who face periodic soybean yield losses due to insect damage. A 600-acre Indiana corn-soybean farm was analyzed by means of a linear programming model. The economic impacts of possible bans on soybean insecticides were measured in terms of changes in per-acre yields, production costs, farm income, per-acre profits, machinery and labor use, and timeliness of field operations. Yield and related information on alternative soybean insecticides was derived from test plot data. Southern journal of agricultural economics. Dec 1980. v. 12 (2). p. 147-152. 8 ref. (NAL Call No.: HD101.S6).

0038

Impact of reduction in use of dibromochloropropane (DBCP) on 1979 soybean yields.
Park, J. Schmidt, K.; Swanson, E.R. Urbana, Ill. The Department. Illinois agricultural economics staff paper, series E agricultural economics - Dept. of Agricultural Economics, University of Illinois. Mar 1981. Mar 1981. (81 E-158). 25 p. (NAL Call No.: 916937(AGE)).

0042

Pest management in experimental soybean cropping systems: a preliminary economic and risk analysis.
Zavaleta, L.R. Eleveld, B.; Starr, V.B.; Kogan, M.; Wax, L.; Helm, C.; Lim, S.M.; Kuhlman, D. Urbana, Ill. : The Department. Extract: Crop production-protection budgets for soybean were generated for three levels of pest management

0039

Impacts of pesticide withdrawal on a typical Indiana farm: an economic analysis.
Cashman, C.M. Martin, M.A.; McCarl, B.A. West Lafayette, The Station. Extract: This bulletin analyzes the short-run, farm-level economic impacts of possible Environmental Protection

and two tillage practices. For the data analyzed, results indicated that high levels of pest management always resulted in a less risky alternative. Conversely, reduced tillage practices tended to increase the variability in yields and returns. Illinois agricultural economics staff paper, series E agricultural economics - University of Illinois, Department of Agricultural Economics. Apr 1983. Apr 1983. (E-253). 26 p. Includes 5 references. (NAL Call No.: 916937(AGE)).

0043

Socio-economic factors relating to the IFA (Imported Fire Ant) and its management (Solenopsis, pests of livestock, fruits, vegetables, hay, soybeans, agricultural losses).

Headley, J.C. Aspelin, A.; Adams, C.T.; Brooks, T.; Brown, R.E. (Washington, D.C.?) : U.S. Dept. of Agriculture, APHIS, 1982. Proceedings of the Symposium on the Imported Fire Ant, June 7-10, 1982, Atlanta American Hotel, Atlanta, Georgia / editor S.L. Battenfield. p. 41-50.5. Includes references. (NAL Call No.: SB945.F535S9 1982).

0044

The value of plant resistance to soybean cyst nematodes; a case study of Forrest soybeans.
Bradley, E.B. Duffy, M. Washington, D.C. : The Service. Extract: The use of pest resistant varieties is an important method of preventing crop losses. The past performance of the Forrest soybean variety that is resistant to the soybean cyst nematode is studied. Results indicate that yield loss prevented by use of the Forrest variety accounted for approximately \$401 million (constant 1980 dollars) compared to about a \$1 million cost of developing the variety. ERS staff report - United States Dept. of Agriculture, Economic Research Service. Oct 1982. Available from NTIS, order no. PB83-149849. Oct 1982. (AGES820929). 42 p. Includes 18 references. (NAL Call No.: 916762(AGE)).

DISTRIBUTION AND MARKETING

0045

The economic position of the United States and Louisiana in the world market for soybeans and the future outlook.

Varela, J. Corty, F. Baton Rouge, La., The Station. Extract: The outlook for soybean exports depends upon a complexity of factors affecting the supply-demand relationships in the world market. On the supply side, one must consider land areas available for production in the various soybean producing countries as well as agricultural policies with associated incentives, subsidies, and controls. On the demand side, one considers competitive products and their relative prices in the world market, also the purchasing power of consumers in the importing nations, size of the consuming sectors, including numbers of animal units, and foreign currency exchange relationships between importing and exporting nations. This publication evaluates the various factors impacting upon the soybean export market and makes projections to the year 1985. D.A.E. research report - Dept. of Agricultural Economics and Agribusiness, Louisiana Agricultural Experiment Station. Jan 1981. Jan 1981. (577). 70 p. Includes ref. (NAL Call No.: 100 L935).

0046

FEEDSIM description and computer program documentation.

Holland, F.D. Meekhof, R.L. West Lafayette, The Station. Extract: FEEDSIM.MOD14 is a stochastic simulation model of the corn-soybean market specifically designed to analyze agricultural commodity program alternatives. It incorporates estimated annual production and demand relationships for corn and soybeans, and current price and income support, reserve, and production control programs for these crops. Station bulletin - Dept. of Agricultural Economics, Agricultural Experiment Station, Purdue University. Mar 1979. Mar 1979. (221). 89 p. (NAL Call No.: HD1775.I6I5).

GRADING, STANDARDS, LABELLING

0047

Dissipation of ¹⁴C (carbon isotope)
N-nitroso-di-N-propylamine (herbicide) from
field soil and residue determinations in
field-grown soybeans.
Berard, D.F. Rainey, D.P. New York, Springer.
Bulletin of environmental contamination and
toxicology. Sept 1979. v. 23 (1/2). p. 141-144.
ill. 4 ref. (NAL Call No.: RA1270.P35A1).

0048

Distribution of chlorinated pesticides in
soybeans, soybean oil, and its by-products
during processing (Effectiveness of processing
steps on the removal of residues).
Chaudry, M.M. Nelson, A.I. Champaign, Ill.
Journal American Oil Chemists' Society. Dec
1978. v. 55 (12). p. 851-853. ill. 12 ref. (NAL
Call No.: 307.8 J82).

PLANT SCIENCE

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The value of plant resistance to soybean cyst nematodes; a case study of Forrest soybeans.
Bradley, E.B. Duffy, M. Washington, D.C. : The Service. Extract: The use of pest resistant varieties is an important method of preventing crop losses. The past performance of the Forrest soybean variety that is resistant to the soybean cyst nematode is studied. Results indicate that yield loss prevented by use of the Forrest variety accounted for approximately \$401 million (constant 1980 dollars) compared to about a \$1 million cost of developing the variety. ERS staff report - United States Dept. of Agriculture, Economic Research Service. Oct 1982. Available from NTIS, order no. PB83-149849. Oct 1982. (AGES820929). 42 p. Includes 18 references. (NAL Call No.: 916762(AGE)).

PLANT PRODUCTION - GENERAL

0050

Annual progress report - 1980 : Northern Research Center, Clarion- Webster Research Center / Iowa State University of Science and Technology. 1981. This publication contains researched information on planting dates versus plant population, breeding, cold tolerance and Zn, S, K fertilization for corn. Soybean information on brown stem rot and bacterial tan spot is provided. Additional topics include herbicide evaluation, small grain tests, and vegetable garden demonstrations. Document available from: Iowa State Univ., Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011. 24 p. : ill. (NAL Call No.: Not available at NAL). (NAL Call No.: ORC 80-14,22).

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Centennial, a new soybean variety with nematode resistance (Yields). Dunphy, E.J. Brim, C.A. Raleigh, N.C., The Service. AG.North Carolina State University. Agricultural Extension Service. July 1979. July 1979. (174). 4 p. ill. (NAL Call No.: S544.3.N6N62).

0052

Crop production - soybean project, leader's guide. Benson, Garren. 1974. Detailed plans for three meetings to help leaders help 4-H'ers to build project-related skills and knowledge. Document available from: Publications Distribution, Iowa State University, Ames, Iowa 50011. Publication intended for: Leader. Learning experience: Knowledge, skills, practices; Decision making. 7 p. : ill. (NAL Call No.: S533.F66I18). (NAL Call No.: 4H-381-E).

0053

Herbicide to aid soybean (and sunflower) dry down (Paraquat, chemical harvest aids). San Francisco, California Farmer. Agrichemical age. Sept/Oct 1979. v. 23 (8). p. 32-33, 49. ill. (NAL Call No.: 381 AG85).

0054

Seedbed tillage and herbicide influence on soybean (*Glycine max*) weed control and yield. Kapusta, G. Champaign, Ill., Weed Science Society of America. Weed science. Sept 1979. v. 27 (5). p. 520-526. ill. 10 ref. (NAL Call No.: 79.8 W41).

0055

Soybean desiccation by paraquat, glyphosate, and ametryn (Herbicides) to accelerate harvest. Whigham, D.K. Stoller, E.W. Madison. Agronomy journal American Society of Agronomy. July/Aug 1979. v. 71 (4). p. 630-633. ill. 4 ref. (NAL Call No.: 4 AM34P).

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Soybean desiccation with paraquat, glyphosate, and ametryn (to hasten soybean maturity to allow early seed harvest). Stoller, E.W. Whigham, D.K. Champaign, Ill.. The Conference. Proceedings ... annual meeting. North Central Weed Control Conference. 1978. v. 33. p. 68-69. (NAL Call No.: 79.9 N81).

0057

Soybean handbook (Includes culture, pests and diseases, processing, cost and return planning). Manhattan, Kan., The Service. C.Kansas State University. Cooperative Extension Service. May 1978. May 1978. (449). 24 p. ill. (NAL Call No.: 275.29 K13EX).

0058

The Soybean project. Swearingen, Marvin. Hankins, B. J. June 1978. Manual covers Divisions I-IV and Advanced and gives sixteen activities such as seed germination, conducting a herbicide survey, determining harvest losses, and cooking with soybeans. 39 p. : ill. (NAL Call No.: S533.F66I6). (NAL Call No.: 4-H 209).

0059

Soybean response to selected rice herbicides (Leaf injury, yield reduction). Eastin, E.F. Madison, Crop Science Society of America. Crop science. Nov/Dec 1978. v. 18 (6). p. 967-968. ill. 3 ref. (NAL Call No.: 64.8 C883).

0060

Soybean-wheat cropping systems : evaluation of planting methods, varieties, row spacings, and weed control / Charles R. Graves ... (et al.). Graves, Charles R. Knoxville University of Tennessee, Agricultural Experiment Station 1980. Cover title. 42 p. : ill. ; 23 cm. - (NAL Call No.: 100 T25S (1) (no.) 597).

(PLANT PRODUCTION - GENERAL)

0061

Soybeans (*Glycine max*) as a rescue crop
following cyanazine and procyazine application.
Brewer, P.E. Slife, F.W. Champaign, Ill., Weed
Science Society of America. Weed science. May
1979. v. 27 (3). p. 263-266. ill. 11 ref. (NAL
Call No.: 79.8 W41).

0062

0 (zero)-till soybean culture (in cornstalks
and in wheat stubble, varieties, herbicides).
McKibben, G.E. Urbana-Champaign, Ill., Illinois
Agricultural Experiment Station. DSAC.Dixon
Springs Agricultural Center. Jan 1979. Jan
1979. (7). p. 61-70. ill. 1 ref. (NAL Call No.:
S1.D5).

PLANT PRODUCTION - HORTICULTURAL CROPS

0063

Fungicides for control of foliar, pod, and stem diseases of soybeans / H. J. Walters.
Walters, H. J. Fayetteville Agricultural Experiment Station, University of Arkansas 1980. Issued Feb. 1980. 31 p. : ill., map. - Bibliography: p. 15. (NAL Call No.: 100 Ar42R no.250).

0064

Germination techniques and metribuzin bioassay for large-seeded crops (Soybean, corn, cowpeas, herbicide).
Singh, M.PFSA. Phatak, S.C.; Glaze, N.C. Lake Alfred : The Society. Proceedings of the ... annual meeting - Florida State Horticultural Society. 1982. v. 95. p. 336-339. ill. Includes references. (NAL Call No.: 81 F66).

0065

Soybeans.
Helsel, Zane R. Document available from: Michigan State University, Bulletin Office, P.O.Box 231, East Lansing, Michigan 48824 1981. Discusses soil and climatic requirements; variety; seed selection; land preparation; fertilizer needs; planting practices; weed, insect, nematode, and disease control; harvesting; and storage. 1 sheet : ill. (NAL Call No.: Document available from source.).(NAL Call No.: EB E-1528).

0066

Weed pest management in soybean presented by Virginia Tech Extension ; (author, James R. Martin ; editor, S.J. Fleischer).
Martin, James R. Fleischer, S. J. (Blacksburg, Va.) Virginia Polytechnic Institute and State University (1981?). Pesticide Applicator Training Collection. 66 slides : col. + 1 sound cassette (13:30 mins.) + 1 script. (NAL Call No.: Slide no.26).

PLANT PRODUCTION - FIELD CROPS

0067

Agronomic performance of soybeans with differing levels of iron deficiency chlorosis on calcareous soil (Nutritional disorders).
Froehlich, D.M., Fehr, W.R. Madison, Wis., Crop Science Society of America. *Crop science*. May/June 1981. v. 21 (3). p. 438-441. 8 ref. (NAL Call No.: 64.8 C883).

0068

Analysis of yield decline in soybeans planted at nonoptimal planting dates, Baton Rouge, 1981 Planting Date Study.
Board, J.E. Baton Rouge, La., The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1982. 1982. p. 107-111. (NAL Call No.: 100 L936).

0069

Annual progress report - 1980 : Northern Research Center, Clarion- Webster Research Center / Iowa State University of Science and Technology.
1981. This publication contains researched information on planting dates verses plant population, breeding, cold tolerance and Zn, S, K fertilization for corn. Soybean information on brown stem rot and bacterial tan spot is provided. Additional topics include herbicide evaluation, small grain tests, and vegetable garden demonstrations. Document available from: Iowa State Univ., Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011. 24 p. : ill. (NAL Call No.: Not available at NAL).(NAL Call No.: ORC 80-14,22).

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Annual progress report-1980 / Iowa State University.
Document available from: Iowa State University. Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011 1981. This publication discusses the research center experiments on tiling methods, time of planting corn, S and Zn fertilizers, fuel and time requirements for tillage system, organic and chemical farming, soybean bacterial tan spot loss, and pasture nutrient losses. Herbicide evaluation and crop variety tests are included. 19 p. : ill. (NAL Call No.: Document available from source).(NAL Call No.: ORC 80-13).

0071

Balloontine : biology and control in soybeans / (Eddie R. Jolley ... et.).
Jolley, Eddie R. (Auburn) Alabama Agricultural Experiment Station, Auburn University 1983. Cover title ~"March 1983." 35 p. : col. ill. ; 23 cm. -. (NAL Call No.: 100 AL1S (1) no.547).

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Carabid beetles in soybean agroecosystems (*Harpalus pensylvanicus*).
House, G.J. A11, J.N. College Park, Md., Entomological Society of America. *Environmental entomology*. Apr 1981. v. 10 (2). p. 194-196. ill. 11 ref. (NAL Call No.: QL461.E532).

0073

Competition of jimsonweed with soybean (*Datura stramonium*, *Glycine max*, weeds, control, herbicide).
Kirkpatrick, B.L. AGJOA. Wax, L.M.; Stoller, E.W. Madison : American Society of Agronomy. *Agronomy journal*. Sept/Oct 1983. v. 75 (5). p. 833-836. ill. Includes references. (NAL Call No.: 4 AM34P).

0074

Competition of three malvaceous weed species in soybeans, (*Glycine max* (L.) Merr.) / by Benny Joe Eaton.
Eaton, Benny Joe, 1943. 1971. Thesis (Ph.D.)--Kansas State University, 1971. Photocopy. Ann Arbor, Mich. : University Microfilms, 1971. v. 68 leaves ; 21 cm. Bibliography: leaves 54-56. (NAL Call No.: DISS 71-26,607).

0075

Control of volunteer corn in soybeans, 1979 (Illinois).
McKibben, G.E. Urbana-Champaign, Ill., Illinois Agricultural Experiment Station. DSAC - Dixon Springs Agricultural Center. Jan 1980. Jan 1980. (8). p. 61-62. (NAL Call No.: S1.D5).

0076

Cotton-soybean rotation for reniform nematode control (*Rotylenchulus reniformis*, resistant cultivars, cultivars, Louisiana).
Williams, C.LAXBA. Gilman, D.F.; Jones, J.E.; Birchfield, W. Baton Rouge : The Station. Bulletin - Louisiana Agricultural Experiment Station. Jan 1983. Jan 1983. (741). 22 p. Includes references. (NAL Call No.: 100 L93 (1)).

0077

Crop production as related to irrigation for several crops at different locations: Soybean evapotranspiration and yield response to growth stage water deficits (*Glycine max*, irrigation timing, stress, Colorado).
Hanks, R.J. Danielson, R.E.; Pruitt, W.O.; Martin, P.E. Logan : The Station. Research report - Utah Agricultural Experiment Station. 1982. 1982. (65). p. 344-367. ill. 11 ref. (NAL

(PLANT PRODUCTION - FIELD CROPS)

Call No.: S1.U7).

Forestry Experiment Station. Aug 1981. v. 44 (8). p. 1-2. ill. (NAL Call No.: 100 M69M1).

0078

Crop rotation vs. monoculture. I. Insect control (Pests of maize, cotton, rice, soybeans, sorghum).
Barnes, G. Madison, Wis., American Society of Agronomy. Crops and soils magazine. Jan 1980. v. 32 (4). p. 15-17. ill. (NAL Call No.: 6 W55).

0079

Double cropping winter wheat and soybeans in Indiana.
Swearingin, Marvin L. Bauman, Thomas T.; Robbins, Paul R.; Edwards, Richard.; Doster, D. Howard.; Parsons, Samuel D. 1979. This publication extensively covers double cropping winter wheat and soybeans in Indiana. The contents of the article covers an overview of double cropping in Indiana. Management suggestions for no-till double cropping, profit potential of double cropping wheat and soybean, weed control in double cropping, insect control, along with harvesting and drying high moisture wheat. Document available from:
Mailing Room, Ag. Administration Bldg., Purdue University, West Lafayette, IN 47907. 22 p. : ill. (NAL Call No.: ID-96).

0080

Early planting of soybeans in cyst-infested soil and the effects on the size and number of nodules (Nematodes, rhizobium, inhibition).
Pacumbaba, R.P. Sapra, V.T. Normal : The School. Annual research report - School of Agriculture. Environmental Science and Home Economics. Alabama Agricultural and Mechanical University. 1983. 1983. (12th). p. 91-94. ill. Includes references. (NAL Call No.: S537.A2A34).

0081

Effect of green stink bug (*Acrosternum hilare*) damage on soybean seed quality before and after storage.
Miner, F.D. AR. Dumas, B.A. Fayetteville, Ark., The Station. Bulletin - Agricultural Experiment Station, University of Arkansas. Apr 1980. Apr 1980. (844). 19 p. 16 ref. (NAL Call No.: 100 AR42).

0082

The effect of late-season application of benomyl (Benlate) (fungicide) on yield and quality of soybeans.
Sciubato, G.L. Andrews, C.H.; Davis, R.G. Mississippi State, The Station. MAFES research highlights - Mississippi Agricultural &

0083

Effect of nematicides and application methods on sting nematode (*Belonolaimus longicaudatus*) control, root nodulation, and yield of soybeans.
Rhoades, H.L. n.p., The Society. Proceedings - Soil and Crop Science Society of Florida. 1980. v. 39. p. 90-92. 8 ref. (NAL Call No.: 56.9 S032).

0084

Effect of plant protectant additives used with metribuzin on soybean production and weed control.
Griffin, J.L. Harger, T.R.; Habetz, R.J. Crowley. Annual progress reportLouisiana. Rice Experiment Station. 1980. 1980. (72nd). p. 363-364. (NAL Call No.: 100 L93 (3)).

0085

Effect of the soybean cyst nematode upon soybean production under different management systems (Continuous cropping of resistant or susceptible soybean varieties, Mississippi).
Hartwig, E.E. RRMSD. Buehring, N.; Young, L.D. Mississippi State : The Station. Research report - Mississippi Agricultural and Forestry Experiment Station. Aug 1982. v. 7 (9). 4 p. (NAL Call No.: S79.E37).

0086

Effects of cultivars and cultural practices on Sclerotinia stem rot of soybean (Sclerotinia sclerotiorum, Whetzelinia sclerotiorum, Glycine max, Wisconsin).
Grau, C.R. Radke, V.L. St. Paul, American Phytopathological Society. Plant disease. Jan 1984. v. 68 (1). p. 56-58. Includes references. (NAL Call No.: 1.9 P69P).

0087

Effects of plant and row spacing on dryland soybean yield and water-use efficiency (Glycine max, water stress).
Alessi, J. Power, J.F. Madison, Wis., American Society of Agronomy. Agronomy journal. Sept/Oct 1982. v. 74 (5). p. 851-854. ill. 18 ref. (NAL Call No.: 4 AM34P).

(PLANT PRODUCTION - FIELD CROPS)

0088

Effects of row-spacing, weed control treatment and cultivar on the competitive ability of soybeans.

Bundick, E.L. Regehr, D.L. Beltsville, Md., The Society. Proceedings - annual meeting of the Northeastern Weed Science Society. Northeastern Weed Science Society. p. 95.p. 95. (NAL Call No.: 79.9 N814).

0089

Effects of weeds on the diversity and abundance of insects in soybeans.

Shelton, M.D. EVETB. Edwards, C.R. College Park : Entomological Society of America. Environmental entomology. Apr 1983. v. 12 (2). p. 296-298. Includes references. (NAL Call No.: QL461.E532).

0090

Emergence and yield of fungicide-treated soybean seed differing in quality (Glycine max, control of soil-borne fungi, Phomopsis, cultivars, Iowa).

Wall, M.T. AGJOA. McGee, D.C.; Burris, J.S. Madison : American Society of Agronomy. Agronomy journal. Nov/Dec 1983. v. 75 (6). p. 969-973. Includes references. (NAL Call No.: 4 AM34P).

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Evaluating hail-damaged soybeans.

Hardman, L.L. MN. Hicks, D.R. St. Paul, Minn., The Service. Extension bulletin - Agricultural Extension Service, University of Minnesota. 1980. 1980. (455). 16 p. ill. (NAL Call No.: 275.29 M66S).

0092

Factors affecting the reaction of soybeans to Phytophthora megasperma var. sojae in hydroponic culture (Glycine max).

Keeling, B.L. Madison, Wis., Crop Science Society of America. Crop science. Mar/Apr 1982. v. 22 (2). p. 325-327. Includes 4 ref. (NAL Call No.: 64.8 C883).

0093

Fertilizer reduces yield loss from weather stress (Corn, soybeans, research in Ohio).

Johnson, J.BCPFA. Atlanta : Potash & Phosphate Institute. Better crops with plant food. Summer 1983. v. 67. p. 6-7. (NAL Call No.: 6 B46).

0094

Forage production and weed control in a double-cropping program (Avena sativa, Zea mays, Glycine max, Sorghum bicolor, Wisconsin).

Okoli, P.S.O. Drolsom, P.N.; Scholl, J.M. Madison, Wis. : American Society of Agronomy. Agronomy journal. May/June 1984. v. 76 (3). p. 363-366. Includes references. (NAL Call No.: 4 AM34P).

0095

Herbicide field trials on field crops, 1980 (Cotton, soybeans, yields).

Frans, R. McClelland, M.; Terhune, E. Fayetteville, Ark., The Station. Mimeograph series - Arkansas, Agricultural Experiment Station. Apr 1981. Apr 1981. (288). 62 p. (NAL Call No.: 100 AR42M).

0096

Herbicides for soybeans planted in conventional seedbeds, 1978 (Illinois).

McKibben, G.E. Urbana-Champaign, Ill., Illinois Agricultural Experiment Station. DSAC - Dixon Springs Agricultural Center. Jan 1980. Jan 1980. (8). p. 77-84. (NAL Call No.: S1.D5).

0097

Herbicides for 0-till corn in soybean stubble, 1979 (No-tillage systems, Illinois).

McKibben, G.E. Urbana-Champaign, Ill., Illinois Agricultural Experiment Station. DSAC - Dixon Springs Agricultural Center. Jan 1980. Jan 1980. (8). p. 57-60. Includes 1 ref. (NAL Call No.: S1.D5).

0098

How to handle herbicide damage (Atrazine, seeding rates, soybeans).

Watkins, R. Hardwick, C. St. Louis, Mo., American Soybean Association. Soybean digest. May/June 1981. v. 41 (7). p. 60-61. ill. (NAL Call No.: 60.38 S09).

0099

Identification and evaluation of soil chemical and physical properties limiting root development in Louisiana soils (Soybeans, wheat, minimum tillage, yields).

Dabney, S.M. Baton Rouge : The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1982. 1982. p. 290-299. ill. (NAL Call No.: 100 L936).

(PLANT PRODUCTION - FIELD CROPS)

0100

Impact of ozone on soybean yield (Air pollution).

Kress, L.W. JEVQA. Miller, J.E. Madison : American Society of Agronomy. Journal of environmental quality. Apr/June 1983. v. 12 (2). p. 276-281. Includes references. (NAL Call No.: QH540.J6).

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Calico mosaic of soybean: sources of resistance and inheritance of reaction (caused by alfalfa mosaic virus).
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Comparative resistance of multiple insect-resistant soybean genotypes to the soybean looper (*Pseudoplusia includens*, *Epilachna*, *Cerotoma trifurcata*, *Heliothis*).
Smith, C.M. Gilman, D.F. College Park, Md., Entomological Society of America. Journal of economic entomology. Aug 1981. v. 74 (4). p. 400-403. illl. 15 ref. (NAL Call No.: 421 J822).

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Myers, O. Jr. Unander, D.W. Carbondale, Ill., Southern Illinois University. AG reviewSouthern Illinois University. School of Agriculture. 1981. 1981. p. PLSS66. (NAL Call No.: S537.S556).

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Fehr, W.R. New York ; Basel : Marcel Dekker, 1982. Iron nutrition and interactions in plants : Brigham Young University, August 12-14, 1981 / edited by S.D. Nelson ... (et al.). p. 611-621. 11 ref. (NAL Call No.: QK867.J67 v. 5, nos. 4-7).

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Cooperation spurs resistant soybeans (*Phialophora gregata*, brown stem rot, varieties, Iowa).

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0158

Effect of a resistant soybean genotype on the development of the soybean looper (Lepidoptera: Noctuidae) and an introduced parasitoid, *Microplitis demolitor* Wilkinson (Hymenoptera: Braconidae) (*Pseudoplusia includens*). Yanes, J. Jr. EVETB. Boethel, D.J. College Park : Entomological Society of America. Environmental entomology. Aug 1983. v. 12 (4). p. 1270-1274. Includes references. (NAL Call

No.: QL461.E532).

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The effect of parentage on the control of volunteer corn (*Zea mays*) in soybeans (*Glycine max*) (Weeds, herbicides, diclofop, glyphosate). Andersen, R.N. Gadelmann, J.L. Champaign, Ill., Weed Science Society of America. Weed science. Mar 1982. v. 30 (2). p. 127-131. ill. Includes 5 ref. (NAL Call No.: 79.8 W41).

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Effect of planting dates and soybean cultivars on pod damage by corn earworm (*Heliothis zea*, resistance).

Joshi, J.M. USDA. Madison, Wis., Crop Science Society of America. Crop science. Jan/Feb 1980. v. 20 (1). p. 59-63. ill. 6 ref. (NAL Call No.: 64.8 C883).

0161

Effects of natural selection in segregating soybean populations exposed to *Phytophthora* rot or soybean cyst nematode (*Phytophthora megasperma*, *Heterodera glycines*, breeding programs).

Hartwig, E.E. Kilen, T.C.; Young, L.D.; Edwards, C.J. Jr. Madison, Wis., Crop Science Society of America. Crop science. May/June 1982. v. 22 (3). p. 588-590. 6 ref. (NAL Call No.: 64.8 C883).

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Evaluation of resistance in soybeans to soybean mosaic virus strains (Cultivars).

Cho, E.K. CRPSA. Goodman, R.M. Madison : Crop Science Society of America. Crop science. Nov/Dec 1982. v. 22 (6). p. 1133-1136. 16 ref. (NAL Call No.: 64.8 C883).

0163

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Harville, B. Wellmeyer, E. Baton Rouge, La., The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1982. 1982. p. 143-145. (NAL Call No.: 100 L936).

0164

Evaluation of soybean lines for soybean looper damage from S-154 Regional project (Breeding, resistance, Louisiana).

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Agronomy. 1982. 1982. p. 275. (NAL Call No.: 100 L936).

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Gilman, D.F. Elkins, M.; Smith, C.M. Baton Rouge, The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1980. 1980. p. 116-117. (NAL Call No.: 100 L936).

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0167

Field and laboratory evaluations of soybean lines for resistance to corn earworm (*Heliothis zea*) leaf feeding).

Smith, C.M. Brim, C.A. Baltimore, Entomological Society of America. Journal of economic entomology. Feb 15, 1979. v. 72 (1). p. 78-80. ill. 6 ref. (NAL Call No.: 421 J822).

0168

Field evaluation of soybean lines to Wartell race of root-knot nematode (Resistance).

Harville, B.G. Dunigan, E.P.; Birchfield, W.; Green, A. Baton Rouge : The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1982. 1982. p. 266-267. (NAL Call No.: 100 L936).

0169

Four genes controlling root fluorescence in soybean (*Glycine max*).

Delannay, X. Palmer, R.G. Madison, Wis., Crop Science Society of America. Crop science. Mar/Apr 1982. v. 22 (2). p. 278-281. Includes ref. (NAL Call No.: 64.8 C883).

0170

The genetic basis of physiological races of Phytophthora (Soybean association, root rot).

Leuders, V.D. Ames, Iowa, The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1982. v. 9. p. 135-139. 13 ref. (NAL Call No.:

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Genetic control of chloroplast pigment development in soybeans as a function of leaf and plant maturity.

Eskins, K. Harris, L.; Bernard, R.L. Rockville, Md., American Society of Plant Physiologists. Plant physiology. Apr 1981. v. 67 (4). p. 759-762. ill. 17 ref. (NAL Call No.: 450 P692).

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Genetic control of hypocotyl pigmentation among white-flowered soybeans grown in continuous light.

Palmer, R.G. Payne, R.C. Madison, Crop Science Society of America. Crop science. Jan/Feb 1979. v. 19 (1). p. 124-126. ill. 12 ref. (NAL Call No.: 64.8 C883).

0173

Genetic control of iron deficiency chlorosis in soybeans.

Cianzio, S.R. de. Fehr, W.R. Ames, Iowa State University. Iowa state journal of research. Feb 1980. v. 54 (3). p. 367-375. ill. 10 ref. (NAL Call No.: 470 I09).

0174

Genetic control of productivity, responsiveness and stability for different groups of traits in soybeans.

Gupta, V.P. Garg, I.K.; Rana, N.D. Ames, Iowa, The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1982. v. 9. p. 53-58. 13 ref. (NAL Call No.: aSB205.S7S6).

0175

Genetic control of seed longevity in soybeans.

Kueneman, E.A. CRPSA. Madison : Crop Science Society of America. Crop science. Jan/Feb 1983. v. 23 (1). p. 5-8. Includes references. (NAL Call No.: 64.8 C883).

0176

Genetic implications of the susceptibility of Kent soybean to *Cercospora sojina* (Frogeye leafspot, *Glycine max*, cultivars).

Boerma, H.R. PHYTAJ. Phillips, D.V. St. Paul : American Phytopathological Society. Phytopathology. Dec 1983. v. 73 (12). p. 1666-1668. Includes references. (NAL Call No.: 464.8 P56).

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Board, J.E. Hall, W. Madison, Wis. : American Society of Agronomy. Agronomy journal. July/Aug 1984. v. 76 (4). p. 700-704. ill. Includes references. (NAL Call No.: 4 AM34P).

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Vathakos, M.G. Walters, H.J. St. Paul, Minn., American Phytopathological Society. *Phytopathology*. Aug 1979. Aug 1979. v. 69 (8). p. 832-833. 12 ref. (NAL Call No.: 464.8 P56).

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Resistance of soybean cultivars and plant introductions to damage by soybean borer (*Etiella zinckenella*).
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Response of resistant and susceptible soybean cultivars to continuous cropping in area infested with cyst nematode (Heterodera glycines, North Carolina).
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Tachibana, H. Thompson, R.A. (s.l.), The Society. *Fungicide and nematicide tests; results - American Phytopathological Society*. 1980. v. 35. p. 193-194. (NAL Call No.: 464.9 AM31R).

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0225

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A second gene for resistance to peanut mottle virus in soybeans. Shipe, E.R. Buss, G.R. Madison, Wis., Crop Science Society of America. *Crop science*. Sept/Oct 1979. v. 19 (5). p. 656-658. ill. 18 ref. (NAL Call No.: 64.8 C883).

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A seedling test for resistance to soybean stem canker caused by *Diaporthe phaseolorum* var. *caulivora* (*Glycine max*). Keeling, B.L. St. Paul, American Phytopathological Society. *Phytopathology*. July 1982. v. 72 (7). p. 807-809. ill. 11 ref. (NAL Call No.: 464.8 P56).

0235

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0236

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Kilen, T.C. Madison, Wis., Crop Science Society of America. Crop science. Sept/Oct 1979. v. 19 (5). p. 581-582. ill. 8 ref. (NAL Call No.: 64.8 C883).

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Simultaneous selection for yield and resistance to brown stem rot of soybean in hill plots (Phialophora gregata, cultivars).
Ertl, D.S. CRPSA. Fehr, W.R. Madison : Crop Science Society of America. Crop science. July/Aug 1982. v. 23 (4). p. 680-682. Includes references. (NAL Call No.: 64.8 C883).

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Rodriguez, J.G. JKESA. Reicosky, D.A.; Patterson, C.G. Lawrence : The Society. Journal of the Kansas Entomological Society. July 1983. v. 56 (3). p. 320-326. Includes references. (NAL Call No.: 420 K13).

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Paschal, E.H. II. TX~AR-SO. Rogers, C.E. College Station, Tex., The Station. MP - Texas Agricultural Experiment Station. July 1980. July 1980. (1451). p. 390-397. Bibliography p. 396-397. (NAL Call No.: 100 T31M).

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Buzzell, R.I. Anderson, T.R. Ames, Iowa, The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1982. v. 9. p. 29-30. 2 ref. (NAL Call No.: aSB205.S7S6).

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Soybean resistance to adults of lucerne crown borer, Zygrita diva Thomson (Coleoptera: Cerambycidae).
Shepard, M. Keerati-Kasikorn, M.; Blood, P.R.B.; Morgan, D. Athens, Ga., The Society. Journal of the Georgia Entomological Society. Jan 1981. v. 16 (1). p. 34-40. ill. 13 ref. (NAL Call No.: QL461.G4).

0242

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Schmitt, D.P. Ross, J.P. Raleigh, N.C., The Service. AG - North Carolina State University, Agricultural Extension Service. Aug 1980. Aug 1980. (218, suppl.). 4 p. (NAL Call No.: S544.3.N6N62).

0243

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Susceptibility of six soybean cultivars to Meloidogyne incognita race 4 (USA, Puerto Rico).
Acosta, N. NMTPA. Negron, J.A. Auburn : Organization of Tropical American Nematologists. Nemtropica. Dec 1982. v. 12 (2). p. 181-187. ill. Includes references. (NAL Call No.: SB998.N4N4).

0245

Susceptibility of soybean cultivars and lines to Pratylenchus hexincisus.
Zirakparvar, M.E. Ames, Iowa, Society of Nematologists. Journal of nematology. Apr 1982. v. 14 (2). p. 217-220. Includes 11 ref. (NAL Call No.: QL391.N4J62).

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Tolerance/resistance to soybean mosaic virus (Heritability).
Buzzell, R.I. Ames : The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1983. v. 10. p. 9-10. Includes references. (NAL Call No.: aSB205.S7S6).

0247

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Phillips, D.V. Boerma, H.R. St. Paul, American Phytopathological Society. Phytopathology. July 1982. v. 72 (7). p. 764-766. 9 ref. (NAL Call No.: 464.8 P56).

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0248

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Coulombe, B.A. Chaney, R.L.; Wiebold, W.J. New York, N.Y. : Marcel Dekker. Journal of plant nutrition. 1984. Presented at the "Second International Symposium on Iron Nutrition and Interactions in Plants," August 2-5, 1983, Utah State University, Logan. v. 7 (1/5). p. 411-425. iii. Includes references. (NAL Call No.: QK867.J67).

0249

Yield of indeterminate soybeans in response to multiple periods of soil-water stress during reproduction (*Glycine max*, cultivars).

Snyder, R.L. Carlson, R.E.; Shaw, R.H. Madison, Wis., American Society of Agronomy. Agronomy journal. Sept/Oct 1982. v. 74 (5). p. 855-859. 2 p. ref. (NAL Call No.: 4 AM34P).

PLANT ECOLOGY

0250

Effects of cultural practices on natural
enemies (Beneficial arthropod dynamics in
soybean, role of plant phenology, pest control
implications).

Mayse, M.SCSBA. Pitre, H.N.; Whitcomb, W.
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No.: 100 G29S0).

PLANT STRUCTURE

0251

Critical stages of development for defoliation of soybean (Yield components, economic-injury level).

Fehr, W.R. Lawrence, B.K.; Thompson, T.A.
Madison, Wis., Crop Science Society of America.
Crop science. Mar 1981. v. 21 (2). p. 259-262.
11 ref. (NAL Call No.: 64.8 C883).

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0252

Cytopathology of soybean tissue culture cells infected with southern bean mosaic virus.

Wu, F.S. Hooper, G.R.; Murkishi, H.M.
Gaithersburg, Md., The Association. In vitro:
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Call No.: QH585.A1I58).

0257

Ultrastructural cytology of soybean infected with mild and severe strains of soybean mosaic virus (*Glycine max*).

Hunst, P.L. PHYTA. Toln, S.A. St. Paul :
American Phytopathological Society.
Phytopathology. Apr 1983. v. 73 (4). p.
615-619. ill. Includes references. (NAL Call
No.: 464.8 P56).

0253

Early events of pathogenesis of zoospores of *Phytophthora megasperma* f. sp. *Glycinea* on resistant and susceptible soybean roots (Scanning electron microscopy).

Ristaino, J.B. Rissler, J.F. College Park, Md.
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Facil, Dept. of Mechanical Engineering.
Newsletter - Electron Microscope Central
Facility. Apr 1983. Apr 1983. (11). p. 15-17.
ill. Includes references. (NAL Call No.:
QH212.E4E4).

0254

Histopathology of susceptible and resistant soybean roots inoculated with zoospores of *Phytophthora megasperma* f. sp. *glycinea* (*Glycine max*).

Beagle-Ristaino, J.F. PHYTA. Rissler, J.F. St.
Paul : American Phytopathological Society.
Phytopathology. Apr 1983. v. 73 (4). p.
590-595. ill. Includes references. (NAL Call
No.: 464.8 P56).

0255

Root system characteristics of two soybean isolines undergoing water stress conditions (*Glycine max*, Nebraska).

Garay, A.F. AGJOA. Wilhelm, W.W. Madison :
American Society of Agronomy. Agronomy journal.
Nov/Dec 1983. v. 75 (6). p. 973-977. ill.
Includes references. (NAL Call No.: 4 AM34P).

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Studies on the role of wall extensibility in the control of cell expansion (Soybeans, peas, maize, cucumbers).

Coartney, J.S. Morre, D.J. Chicago, University
of Chicago Press. Botanical gazette. Mar 1980.
v. 141 (1). p. 56-62. ill. 20 ref. (NAL Call

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Calcium-trace metal interactions in soybean plants (Phytotoxicity).

Wallace, A. Romney, E.M.; Mueller, R.T.; Alexander, G.V. New York, Marcel Dekker. Journal of plant nutrition. 1980. v. 2 (1/2). p. 79-86. ill. 18 ref. (NAL Call No.: OK867.J67).

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Corn residue management and weed control in close-drilled soybeans (Herbicide adsorption).

Moomaw, R.S. Burnside, D.C. Madison. Agronomy journal American Society of Agronomy. Jan/Feb 1979. v. 71 (1). p. 78-80. ill. 6 ref. (NAL Call No.: 4 AM34P).

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Critical manganese deficiency level of soybean related to leaf position (Physiological age).

Ohki, K. Boswell, F.C. Madison. Agronomy journal American Society of Agronomy. Mar/Apr 1979. v. 71 (2). p. 233-234. ill. 13 ref. (NAL Call No.: 4 AM34P).

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Diagnostic indices of zinc deficiency in tropical legumes (Soybeans, *Lablab purpureus*, *Desmodium uncinatum*, *Macroptilium lathroides*). New York, Marcel Dekker. Journal of plant nutrition. 1979. v. 1 (2). p. 123-149. ill. 38 ref. (NAL Call No.: OK867.J67).

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Differential cultivar tolerance in soybean to phytotoxic levels of soil Zn. II. Range of Zn additions and the uptake and translocation of Zn, Mn, Fe, and P (Zinc, manganese, iron, and phosphorus).

White, M.C. Chaney, R.L. Madison. Agronomy journal American Society of Agronomy. Jan/Feb 1979. v. 71 (1). p. 126-131. ill. 25 ref. (NAL Call No.: 4 AM34P).

0263

Differential metabolism of metribuzin (herbicide) by two soybean (*Glycine max*) cultivars.

Mangeot, B.L. Slife, F.E. Champaign, Ill., Weed Science Society of America. Weed science. May 1979. v. 27 (3). p. 267-269. ill. 5 ref. (NAL Call No.: 79.8 W41).

0264

Early planting of soybeans in cyst-infested soil and the effects on the size and number of nodules (Nematodes, rhizobium, inhibition).

Pacumbaba, R.P. Sapra, V.T. Normal : The School. Annual research report - School of Agriculture. Environmental Science and Home Economics. Alabama Agricultural and Mechanical University. 1983. 1983. (12th). p. 91-94. ill. Includes references. (NAL Call No.: S537.A2A34).

0265

The effect of benomyl (fungicide) applications to soybean plants on hilum color (Cultivars).

Payne, R.C. Schoen, J.F. n.p., The Association. News letter. Association of Official Seed Analysts. Sept 1979. v. 53 (3). p. 48-50. ill. 3 ref. (NAL Call No.: 61.9 AS7N).

0266

Effect of carbon dioxide concentration on growth and dry matter production of crop plants. VI. Effect of oxygen concentration on the carbon dioxide-dry matter production relationship in some C3- and C4 (carbon pathway)-crop species (Rice, soybeans, Japanese millet and maize).

Imai, K. Murata, Y. Tokyo, Nihon Sakumotsu Gakkai. Nihon Sakumotsu Gakkai kiji. Japanese journal of crop science Nihon Gakkai Sakumotsu. Mar 1979. v. 48 (1). p. 58-65. ill. 24 ref. (NAL Call No.: 22.5 C88).

0267

Effect of fertilizer-N and herbicides on the growth and N (nitrogen) content of soybeans and cowpeas.

Behran, S. Maftoun, M. Madison. Agronomy journal American Society of Agronomy. July/Aug 1979. v. 71 (4). p. 533-538. ill. 28 ref. (NAL Call No.: 4 AM34P).

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Effect of fertilizer reaction and placement on availability of manganese (Deficiencies, sugarbeets, soybeans, navy beans).

Voth, R.D. Christenson, D.R. Madison, Wis., American Society of Agronomy. Agronomy journal. Sept/Oct 1980. v. 72 (5). p. 769-773. 13 ref. (NAL Call No.: 4 AM34P).

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0269

Effect of fungicides and herbicides on nodulation and N₂ (nitrogen) fixation in soybean fields lacking indigenous Rhizobium japonicum (Survival of granular and seed-applied inoculants of Rhizobium).
Rennie, R.J. Dubetz, S. Madison, Wis. : American Society of Agronomy. Agronomy journal. May/June 1984. v. 76 (3). p. 451-454. Includes references. (NAL Call No.: 4 AM34P).

0270

Effect of iron on the correction of soybean chlorosis.
Evans., S.D.MXMRA. Meredith, H.L. St. Paul : The Station. Miscellaneous publication - University of Minnesota, Agricultural Experiment Station. 1983. 1983. (2 rev.). p. 97. (NAL Call No.: S1.M52).

0271

Effects of simulated field temperatures and chilling on itchgrass (*Rottboellia exaltata*), corn (*Zea mays*), and soybean (*Glycine max*).
Patterson, D.T. Flint, E.P. Champaign, Ill., Weed Science Society of America. Weed science. Nov 1979. v. 27 (6). p. 645-650. ill. 17 ref. (NAL Call No.: 79.8 W41).

0272

Effects of wetting agent, stage of growth, and species on the selectivity of diclofop (wheat, soybeans, cucumber, sorghum).
Schreiber, M.M. Warren, G.F. Champaign, Ill., Weed Science Society of America. Weed science. Nov 1979. v. 27 (6). p. 679-683. ill. 13 ref. (NAL Call No.: 79.8 W41).

0273

Environmental sensitivity of acetylene reduction activity in prediction of N (nitrogen) fixation in soybeans (relationship between effects of water stress and temperature).

Raper, C.D. Jr. CR. Patterson, R.P. Madison, Wis., American Society of Agronomy. Agronomy journal. Sept/Oct 1980. v. 72 (5). p. 717-719. ill. 13 ref. (NAL Call No.: 4 AM34P).

0274

Evaluation of the need for copper with several soil extractants (Deficiencies, critical levels, soybeans, *Glycine max*, corn, *Zea mays*, wheat, *Triticum aestivum*, soils from the Atlantic Coastal Plain, North Carolina).
Makarim, A.K. AGJOA. Cox, F.R. Madison : American Society of Agronomy. Agronomy journal. May/June 1983. v. 75 (3). p. 493-496. Includes

references. (NAL Call No.: 4 AM34P).

0275

Fertilizer reduces yield loss from weather stress (Corn, soybeans, research in Ohio).
Johnson, J.BCPFA. Atlanta : Potash & Phosphate Institute. Better crops with plant food. Summer 1983. v. 67. p. 6-7. (NAL Call No.: 6 B46).

0276

Foliage injury, nutrient intake, and yield of soybeans as influenced by foliar fertilization.
Parker, M.B. Boswell, F.C. Madison, Wis., American Society of Agronomy. Agronomy journal. Jan/Feb 1980. v. 72 (1). p. 110-113. ill. 9 ref. (NAL Call No.: 4 AM34P).

0277

Foliar nitrogen loss and CO₂ (carbon dioxide) equilibrium as influenced by three soybean (*Glycine max*) (infested with *Ipomoea hederacea integrifolia*) postemergence herbicides (Physiological responses).
Weiland, R.T. Stutte, C.A. Champaign, Ill., Weed Science Society of America. Weed science. Sept 1979. v. 27 (5). p. 545-548. ill. 20 ref. (NAL Call No.: 79.8 W41).

0278

Germination and emergence of balloonvine (*Cardiospermum halicacabum*) (Compared with soybean seeds).
Johnston, S.K. Murray, D.S. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1979. v. 27 (1). p. 73-76. ill. 9 ref. (NAL Call No.: 79.8 W41).

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Growth and specific nodule activity of soybean (inoculated with *Rhizobium japonicum*) during application and recovery of a leaf moisture stress.
Patterson, R.P. Raper, C.D. Jr. Bethesda, Md., American Society of Plant Physiologists. Plant physiology. Oct 1979. v. 64 (4). p. 551-556. ill. 16 ref. (NAL Call No.: 450 P692).

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Growth and water use by common cocklebur (*Xanthium pensylvanicum*) and soybeans (*Glycine max*) under field conditions.
Geddes, R.D. Scott, H.D. Champaign, Ill., Weed Science Society of America. Weed science. Mar 1979. v. 27 (2). p. 206-212. ill. 15 ref. (NAL Call No.: 79.8 W41).

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0281

Influence of napropamide on the uptake and translocation of mineral nutrients (Herbicide, radish, wheat, corn, soybean).

Devlin, R.M. Zbiec, I.I.; Karczmarczyk, S.J. Champaign, Ill., Weed Science Society of America. *Weed science*. Sept 1982. v. 30 (5). p. 503-506. 7 ref. (NAL Call No.: 79.8 W41).

0282

Influence of soil reaction and manganese applications on yields and chemical composition of soybean plants (Includes phytotoxicity, Louisiana).

Sedberry, J.E. Jr. Bligh, D.P.; Mascagni, H.J.; Brubacher, R.H.; Marshall, J.G. Baton Rouge : The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1982. 1982. p. 277-280. Includes references. (NAL Call No.: 100 L936).

0283

Interaction of mineral and cytokinin supply in control of leaf senescence and seed growth in soybean explants (*Glycine max*).

Neumann, P.M. JPNUDS. Nooden, L.D. New York : Marcel Dekker. *Journal of plant nutrition*. 1983. v. 6 (9). p. 735-742. Includes references. (NAL Call No.: QK867.J67).

0284

Interactions between a vesicular-arbuscular mycorrhizal fungus (*Glomus macrocarpus*) and root-knot nematode (*Meloidogyne incognita*) on soybean.

Kellam, M.K. Schenck, N.C. St. Paul, Minn., American Phytopathological Society. *Phytopathology*. Apr 1980. v. 70 (4). p. 293-296. ill. 21 ref. (NAL Call No.: 464.8 P56).

0285

Internally seedborne fungi of soybean in Puerto Rico and their effect on seed germination and field emergence.

Ellis, M.A. Paschal, E.H. Guildford. *Tropical agriculture*. Apr 1979. v. 56 (2). p. 171-174. ill. 8 ref. (NAL Call No.: 26 T754).

0286

Introduction of effective N₂-fixing rhizobial strains into the soybean plant by use of fungicide resistance (Fungicide-resistant mutants of *Rhizobium japonicum*, nodulation, nitrogen fixation).

Jones, R. Giddens, J. Madison, Wis. : American Society of Agronomy. *Agronomy journal*. July/Aug 1984. v. 76 (4). p. 599-602. ill. Includes

references. (NAL Call No.: 4 AM34P).

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Leaf conductance and leaf-water potential relationships for two soybean cultivars grown under controlled irrigation.

Carlson, R.E. Momen, N.N. Madison. *Agronomy journal* American Society of Agronomy. Mar/Apr 1979. v. 71 (2). p. 321-325. ill. 27 ref. (NAL Call No.: 4 AM34P).

0288

Manganese concentration in soybean leaves as affected by cultivars and soil properties (Includes toxicity).

Jones, W.F. Nelson, L.E. New York, Dekker. *Communications in soil science and plant analysis*. 1979. v. 10 (5). p. 821-830. ill. 10 ref. (NAL Call No.: S590.C63).

0289

Manganese toxicity and iron nutrition of soybeans / by Stanley Sam Portch.

Portch, Stanley Sam, 1937. 1971. Thesis (Ph.D.)--University of Arkansas, 1971. Photocopy. Ann Arbor, Mich. : University Microfilms, 1971. xvi, 200 leaves ; 21 cm. Bibliography: leaves 154-180. (NAL Call No.: DISS 71-19,554).

0290

Metabolism and selectivity of fluchloralin (Herbicides) in soybean roots.

Marquis, L.Y. Shimabukuro, R.H. Washington, D.C., American Chemical Society. *Journal of agricultural and food chemistry*. Nov/Dec 1979. v. 27 (6). p. 1148-1156. ill. 28 ref. (NAL Call No.: 381 J8223).

0291

Observations on the relationships between a vesicular-arbuscular fungus (*Glomus sp.*), a fungivorous nematode (*Aphelenchus avenae*), and the growth of soybeans.

Salawu, E.O. Estey, R.H. Saint-Hyacinthe, Quebec, Quebec Society for the Protection of Plants. *Phytoprotection*. June 1979. v. 60 (2). p. 99-102. ill. 9 ref. (NAL Call No.: 464.8 P566).

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0292

Photosynthetic response of field-grown soybeans to fumigations with sulphur dioxide.
Muller, R.N. Miller, J.E. Oxford, Blackwell Scientific Publications. The Journal of applied ecology. Aug 1979. v. 16 (2). p. 567-576. ill. Bibliography p. 575-576. (NAL Call No.: 410 J828).

0293

Physiological responses of soybean (*Glycine max*) plants to metribuzin (Photosynthesis inhibitors, sublethal effects, nitrogen metabolism).
Fedtke, C. Champaign, Ill., Weed Science Society of America. Weed science. Mar 1979. v. 27 (2). p. 192-195. ill. 29 ref. (NAL Call No.: 79.8 W41).

0294

Plant genotype differences to ferrous and total iron in emerging leaves. II. Dry beans and soybeans (Uptake and deficiency).
Pierson, E.E. Clark, R.B.; Coyne, D.P.; Maranville, J.W. New York, N.Y. : Marcel Dekker. Journal of plant nutrition. 1984. Presented at the "Second International Symposium on Iron Nutrition and Interactions in Plants," August 2-5, 1983, Utah State University, Logan. v. 7 (1/5). p. 355-369. ill. Includes references. (NAL Call No.: QK867.J67).

0295

Potash and foliar fungicides team-up to increase yields (Tennessee soybean research).
Atlanta : Potash & Phosphate Institute. Better crops with plant food. Spring 1983. v. 67. p. 22-23. ill. (NAL Call No.: 6 B46).

0296

Potassium fertilization effects on *Phomopsis* seed infection, seed quality, and yield of soybeans (*Glycine max*).
Jeffers, D.L. Schmittner, A.F.; Kroetz, M.E. Madison, Wis., American Society of Agronomy. Agronomy journal. Sept/Oct 1982. v. 74 (5). p. 886-890. 12 ref. (NAL Call No.: 4 AM34P).

0297

The quality of soybean seed as affected by benomyl (foliar fungicide) treatment.
Johnson, R.R. Keith, G.M. Urbana, Agricultural Experiment Station. Illinois research. Winter 1979. v. 21 (1). p. 8-9. ill. (NAL Call No.: 100 IL64).

0298

The relationship of soil solution chemistry to iron chlorosis and yield of soybeans on high lime soils (Variety comparisons, Minnesota).
Bloom, P.R. MXMRA. Inskeep, W.P. St. Paul : The Station. Miscellaneous publication - University of Minnesota, Agricultural Experiment Station. 1983. 1983. (2 rev.). p. 213-215. (NAL Call No.: S1.M52).

0299

Respiratory changes with chilling injury of soybeans.
Leopold, A.C. Musgrave, M.E. Bethesda, Md., American Society of Plant Physiologists. Plant physiology. Nov 1979. v. 64 (5). p. 702-705. ill. 13 ref. (NAL Call No.: 450 P692).

0300

Response of soybeans to high temperature during germination (Includes cultivars, seed quality).
Emerson, B.N. Minor, H.C. Madison, Wis., Crop Science Society of America. Crop science. July/Aug 1979. v. 19 (4). p. 553-556. ill. 15 ref. (NAL Call No.: 64.8 C883).

0301

Response of soybeans to simulated acid rain in the field (Rhizobium nodulation).
Heagle, A.S. JEVQA. Philbeck, R.B.; Brewer, P.F.; Ferrell, R.E. Madison : American Society of Agronomy. Journal of environmental quality. Oct/Dec 1983. v. 12 (4). p. 538-543. ill. Includes references. (NAL Call No.: QH540.J6).

0302

Role of roots and shoots of soybean (cultivars) in tolerance to excess soil zinc (Phytotoxicity).
White, M.C. Chaney, R.L. Madison, Crop Science Society of America. Crop science. Jan/Feb 1979. v. 19 (1). p. 126-128. ill. 18 ref. (NAL Call No.: 64.8 C883).

0303

The seed-borne nature of some soybean pathogens, the effect of *Phomopsis* spp. and *Bacillus subtilis* on germination, and their occurrence in soybeans produced in Illinois.
Sinclair, J.B. Zurich, International Seed Testing Association. Seed science and technology. 1978. v. 6 (4). p. 957-964. ill. 24 ref. (NAL Call No.: SB117.S455).

0304

Soybean cyst nematode (*Heterodera glycines*) and Rhizobium (nitrogen) strain influences on soybean nodulation and N₂-fixation.

McGinnity, P.J. Kapusta, G. Myers, O. Jr.
Madison, Wis., American Society of Agronomy.
Agronomy journal. Sept/Oct 1980. v. 72 (5). p.
785-789. 23 ref. (NAL Call No.: 4 AM34P).

0305

Soybean (*Glycine max*) cultivar response (Herbicides).

Eastin, E.F. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1979. v. 27 (1). p. 4-6. ill. 20 ref. (NAL Call No.: 79.8 W41).

0306

Specific effects of soybean mosaic virus on total N (nitrogen), ureide-N, and symbiotic N₂-fixation activity in *Glycine max* and *Glycine soja* (Soybeans and wild annual soybeans).

Orellana, R.G. PHYTA. Reynolds, S.L.; Van Berkum, P. St. Paul : American Phytopathological Society. Phytopathology. Aug 1983. v. 73 (8). p. 1156-1160. ill. Includes references. (NAL Call No.: 464.8 P56).

PLANT PHYSIOLOGY AND BIOCHEMISTRY

0307

Activity of trypsin and chymotrypsin inhibitors of soybean forms with different resistance to soybean borer (Soybean varieties).

Sichkar, V.I. Levitsky, A.P.; Grikun, O.A.; Lobko, V.N.; Marj'ushkin, V.F. Ames : The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1983. v. 10. p. 123-125. Includes references. (NAL Call No.: aSB205.S7S6).

0308

Allelopathic mechanisms of velvetleaf (*Abutilon theophrasti* Medic., Malvaceae) on soybean (Weed, plant production interference).

Colton, G.E. EinHELLIG, F.A. Columbus, Ohio, Botanical Society of America. American journal of botany. Nov/Dec 1980. v. 67 (10). p. 1407-1413. 37 ref. (NAL Call No.: 450 AM36).

0309

ASA-610 ability to detect changes in soybean seed quality (Vigor, seed deterioration).

McDonald, M.B. Jr. Wilson, D.O. East Lansing, Association of Official Seed Analysts. Journal of seed technology. 1980. v. 5 (1). p. 56-66. 17 ref. (NAL Call No.: SB113.2.J6).

0310

Association of volatile aldehyde production during germination with poor soybean and pea seed quality (Soilborne fungi and bacteria, vigor and viability).

Harman, G.E. Nedrow, B.L.; Clark, B.E.; Mattick, L.R. Madison, Wis., Crop Science Society of America. Crop science. July/Aug 1982. v. 22 (4). p. 712-716. ill. 19 ref. (NAL Call No.: 64.8 C883).

0311

Characterization of solute efflux from dehydration injured soybean (*Glycine max* L. Merr) seeds.

Senaratna, T.PLPHA. McKersie, B.D. Rockville : American Society of Plant Physiologists. Plant physiology. Aug 1983. v. 72 (4). p. 911-914. Includes references. (NAL Call No.: 450 P692).

0312

Comparative metabolism of (the herbicide) 2,4-dichlorophenoxyacetic acid in cotyledon and leaf callus from two varieties of soybean.

Davidonis, G.H. Hamilton, R.H.; Mumma, R.O. Bethesda, Md., American Society of Plant Physiologists. Plant physiology. Jan 1980. v. 65 (1). p. 94-97. ill. 8 ref. (NAL Call No.: 450 P692).

0313

Dehydration injury in germinating soybean (*Glycine max* L. Merr.) seeds.

Senaratna, T.PLPHA. McKersie, B.D. Rockville : American Society of Plant Physiologists. Plant physiology. July 1983. v. 72 (3). p. 620-624. Includes references. (NAL Call No.: 450 P692).

0314

Effect of date of harvest maturity on soybean seed quality and *Phomopsis* sp. seed infection (*Glycine max*, germination vigor).

Tekrony, D.M. Egli, D.B.; Balles, J.; Tomes, L.; Stuckey, R.E. Madison : Crop Science Society of America. Crop science. Jan/Feb 1984. v. 24 (1). p. 189-193. Includes references. (NAL Call No.: 64.8 C883).

0315

Effect of moisture stress on seed growth in soybeans (Kentucky).

Meckel, L. Efli, D.B.; Phillips, R.E.; Radcliffe, D.; Leggett, J.E. Madison, Wis. : American Society of Agronomy. Agronomy journal. July/Aug 1984. v. 76 (4). p. 647-650. ill. Includes references. (NAL Call No.: 4 AM34P).

0316

Effect of temperature and relative humidity on translocation of 14C-metriflufen in johnsongrass (*Sorghum halepense*) and soybean (*Glycine max*) (Herbicide).

McWhorter, C.G. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1981. v. 29 (1). p. 87-93. ill. 14 ref. (NAL Call No.: 79.8 W41).

0317

Effects of carbofuran and water stress on growth of soybean plants and twospotted spider mite (Acaria: Tetranychidae) populations under greenhouse conditions (*Tetranychus urticae*).

Mellors, W.K. Allegro, A.; Nsu, A.N. College Park, Md. : Entomological Society of America. Environmental entomology. Apr 1984. v. 13 (2). p. 561-567. Includes references. (NAL Call No.: QL461.E532).

0318

Effects of simulated ozone and sulfur dioxide fumigations on soybeans in open-top field chambers (Air pollution).

Pratt, G.C. Pittsburgh, Pa. : Air Pollution Control Association. Proceedings ... APCA annual meeting. 1983. v. 1 (76th). p. 83-2.1-83-2.1/21. ill. 111. Includes references. (NAL Call No.: TD881.A56).

(PLANT PHYSIOLOGY AND BIOCHEMISTRY)

0319

Estimating kinetic parameters when the amount of enzyme added to an assay is not a controlled variable: nitrogenase activity of intact legumes (Soybeans or cowpeas).

Davis, L.C. Bethesda, Md., American Society of Plant Physiologists. Plant physiology. July 1980. v. 66 (1). p. 126-129. ill. 12 ref. (NAL Call No.: 450 P692).

0320

Exudation of glyphosate from wheat (*Triticum aestivum*) plants and its effects on interplanted corn (*Zea mays*) and soybeans (*Glycine max*) (Growth regulator, herbicide uptake, no-tillage).

Rodrigues, J.J.V. Worsham, A.D.; Corbin, F.T. Champaign, Ill., Weed Science Society of America. Weed science. May 1982. v. 30 (3). p. 316-320. Includes 22 ref. (NAL Call No.: 79.8 W41).

0321

Factors in depression of the apical growth of plants treated with hormonal herbicides (*Glycine max*, soybeans, green beans).

Petelina, G.G. Mikityuk, O.D.; Makeev, A.M.; Makoveichuk, A.Yu.; Chkanikov, D.I. New York, N.Y., Consultants Bureau. Soviet plant physiology. Mar/Apr 1982. Translated from: *Fiziologiya rastenii*, p. 282-285. (450 F58). v. 29 (2,pt.1). p. 214-217. 6 ref. (NAL Call No.: 450 F58AE).

0322

The factors of three herbicides on the growth factors and N₂ (nitrogen)-fixation of two soybean cultivars (Stimulatory and inhibitory effects, Louisiana).

Chin, K.L. Abayneh, T.; Lee, W.J. Baton Rouge, La.: The University. Research bulletin - Southern University. Sept 1, 1983. v. 5 (1). p. 26-37. ill. 11 ref. (NAL Call No.: S539.5.R42).

0323

Fate of MBR-18337 in soybean (*Glycine max*) and Johnsongrass (*Sorghum halepense*) plants and cell cultures (Herbicide, plant growth regulators).

Swisher, B.A. WEESA. Corbin, F.T. Champaign : Weed Science Society of America. Weed science. Mar 1983. v. 31 (2). p. 242-246. ill. 11 ref. (NAL Call No.: 79.8 W41).

0324

Foliar fatty acids and sterols of soybean field fumigated with SO₂ (sulfur dioxide).

Grunwald, C. Rockville, Md., American Society of Plant Physiologists. Plant physiology. Oct 1981. v. 68 (4). p. 868-871. 21 ref. (NAL Call No.: 450 P692).

0325

Four genes controlling root fluorescence in soybean (*Glycine max*).

Delannay, X. Palmer, R.G. Madison, Wis., Crop Science Society of America. Crop science. Mar/Apr 1982. v. 22 (2). p. 278-281. Includes ref. (NAL Call No.: 64.8 C883).

0326

Fungal effects on Rhizobium japonicum-soybean symbiosis (Antagonism Mycotoxins).

Angle, J.S. Pugashetti, B.K.; Wagner, G.H. Madison, Wis., American Society of Agronomy. Agronomy journal. Mar/Apr 1981. v. 73 (2). p. 301-306. ill. 16 ref. (NAL Call No.: 4 AM34P).

0327

Genetic control of chloroplast pigment development in soybeans as a function of leaf and plant maturity.

Eskins, K. Harris, L.; Bernard, R.L. Rockville, Md., American Society of Plant Physiologists. Plant physiology. Apr 1981. v. 67 (4). p. 759-762. ill. 17 ref. (NAL Call No.: 450 P692).

0328

Glyceollin: a site-specific inhibitor of electron transport in isolated soybean mitochondria (*Glycine max*, *Zea mays*, maize, autophytotoxicity).

Boydston, R.P.L.PHA. Paxton, J.D.; Koeppe, D.E. Rockville : American Society of Plant Physiologists. Plant physiology. May 1983. v. 72 (1). p. 151-155. Includes references. (NAL Call No.: 450 P692).

0329

Host-pathogen interactions. XVII. Hydrolysis of biologically active fungal glucans by enzymes isolated from soybean cells (*Phytophthora megasperma*, phytoalexins).

Cline, K. Albersheim, P. Rockville, Md., American Society of Plant Physiologists. Plant physiology. July 1981. v. 68 (1). p. 221-228. ill. 19 ref. (NAL Call No.: 450 P692).

(PLANT PHYSIOLOGY AND BIOCHEMISTRY)

0330

Host-pathogen interactions. XVIII. Isolation and biological activity of glycitol, a pterocarpan phytoalexin synthesized by soybeans.

Weinstein, L.I. Hahn, M.G.; Albersheim, P. Rockville, Md., American Society of Plant Physiologists. Plant physiology. Aug 1981. v. 68 (2). p. 358-363. ill. 24 ref. (NAL Call No.: 450 P692).

0331

Increase in germination and vigor level of soybean seeds by benomyl field treatments.

Tao, K.L.J. AMS. Schoen, J.F.; Payne, R.C. n.p., The Association. The News letter of the Association of Official Seed Analysts. May 1980. v. 54 (2). p. 44-49. 15 ref. (NAL Call No.: 61.9 AS7N).

0332

Influence of the herbicides hexazinone and chlorsulfuron on the metabolism of isolated soybean leaf cells (Photosynthetic inhibitor). Hatzios, K.K. Howe, C.M. New York, Academic Press. Pesticide biochemistry and physiology. June 1982. v. 17 (3). p. 207-214. 21 ref. (NAL Call No.: SB951.P49).

0333

Influence of water stress on the diurnal exchange of mass and energy between the atmosphere and a soybean canopy (*Glycine max*, Nebraska).

Baldocchi, D.D. AGJOA. Verma, S.B.; Rosenberg, N.J.; Blad, B.L.; Garay, A. Madison : American Society of Agronomy. Agronomy journal. May/June 1983. v. 75 (3). p. 543-548. ill. Includes references. (NAL Call No.: 4 AM34P).

0334

Interaction of mineral and cytokinin supply in control of leaf senescence and seed growth in soybean explants (*Glycine max*).

Neumann, P.M. JPNUDS. Nooden, L.D. New York : Marcel Dekker. Journal of plant nutrition. 1983. v. 6 (9). p. 735-742. Includes references. (NAL Call No.: QK867.J67).

0335

Interactions of plant-parasitic nematodes and ozone and sulfur dioxide with soybean and begonia / by David Edwin Weber.

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0336

Lipoxygenase, trypsin inhibitor, and lectin from soybeans: effects on larval growth of *Manduca sexta* (Lepidoptera: Sphingidae).

Shukle, R.H. EVETB. Murdock, L.L. College Park : Entomological Society of America. Environmental entomology. June 1983. v. 12 (3). p. 787-791. Includes references. (NAL Call No.: QL461.E532).

0337

Metabolism of AC 206,784 herbicide (2-chloro-N-(2,3-dimethylphenyl)-N-(1-methylethyl)acetamide) in soybean plants (*Glycine max*). Hussain, M. JAFCA. Kapoor, I.P.; Ku, C.C.; Stout, S. Washington : American Chemical Society. Journal of agricultural and food chemistry. Mar/Apr 1983. v. 31 (2). p. 232-236. Includes references. (NAL Call No.: 381 J8223).

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Metabolism of the herbicide Hoe 33171 in soybeans.

Wink, O. Dorn, E.; Beyermann, K. Washington, D.C. : American Chemical Society. Journal of agricultural and food chemistry. Mar/Apr 1984. v. 32 (2). p. 187-192. ill. Includes references. (NAL Call No.: 381 J8223).

0339

Methanol stress as a test of seed vigor (Peas, soybeans, cultivars, germination).

Musgrave, M.E. Priestley, D.A.; Leopold, A.C. Madison; Wis., Crop Science Society of America. Crop science. Sept/Oct 1980. v. 20 (5). p. 626-630. ill. 20 ref. (NAL Call No.: 64.8 C883).

0340

Moisture stress and N (nitrogen) redistribution in soybeans (*Glycine max*).

Egli, D.B. AGJOA. Meckel, L.; Phillips, R.E.; Radcliffe, D.; Leggett, J.E. Madison : American Society of Agronomy. Agronomy journal. Nov/Dec 1983. v. 75 (6). p. 1027-1031. Includes references. (NAL Call No.: 4 AM34P).

0341

Morphological and physiological parameters of soybean resistance to agromyzid beanflies.

Chiang, H.S. EVETB. Norris, D.M. College Park : Entomological Society of America. Environmental entomology. Feb 1983. v. 12 (1). p. 260-265. Includes references. (NAL Call No.:

QL461.E532).

0342

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Photosynthetic capacity i potassium stressed soybean: comparison of CO₂ (carbon dioxide) fixation and O₂ (oxygen) evolution assays.

Wells, R. Liebhardt, W.C.; Svec, L.V.; Frick, H. New York, Marcel Dekker. Journal of plant nutrition. 1979. v. 1 (3). p. 283-293. ill. 20 ref. (NAL Call No.: QK867.J67).

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Predicting the storability of soybean seed lots (Germination, accelerated aging, regression analysis).

Baskin, C.C. East Lansing, Mich., Association of Official Seed Analysts. Journal of seed technology. 1980. v. 5 (2). p. 1-6. 6 ref. (NAL Call No.: SB113.2.J6).

0345

Preharvest effects of applying glyphosate to soybeans (Glycine max) (Weed control).

Azlin, W.R. McWhorter, C.G. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1981. v. 29 (1). p. 123-127. ill. 10 ref. (NAL Call No.: 79.8 W41).

0346

Responses of selected plant species to elevated carbon dioxide in the field (Zea mays, Glycine max, Pinus taeda, Liquidambar styraciflua).

Rogers, H.H. JEVQA. Bingham, G.E.; Cure, J.D.; Smith, J.M.; Surano, K.A. Madison : American Society of Agronomy. Journal of environmental quality. Oct/Dec 1983. v. 12 (4). p. 569-574. Includes references. (NAL Call No.: QH540.J6).

0347

Selectivity mechanisms for foliar applications of diclofop-methyl. II. Metabolism (Studies with weeds, prosomillet, soybeans and cucumber, uptake, tolerance).

Boldt, P.F. Putnam, A.R. Champaign, Ill., Weed Science Society of America. Weed science. Mar 1981. v. 29 (2). p. 237-241. ill. 15 ref. (NAL Call No.: 79.8 W41).

0348

Stability of soybean harvest index (within cultivars, Drought stress effects, interplant competition, Florida, New York).

Spaeth, S.C. Randall, H.C.; Sinclair, T.R.; Vendeland, J.S. Madison, Wis. : American Society of Agronomy. Agronomy journal. May/June 1984. v. 76 (3). p. 482-486. ill. Includes references. (NAL Call No.: 4 AM34P).

0349

Studies on the role of wall extensibility in the control of cell expansion (Soybeans, peas, maize, cucumbers).

Coartney, J.S. Morre, D.J. Chicago, University of Chicago Press. Botanical gazette. Mar 1980. v. 141 (1). p. 56-62. ill. 20 ref. (NAL Call No.: 450 B652).

0350

Temperature effects on soybean imbibition and leakage (Chilling injuries).

Leopold, A.C. Bethesda, Md., American Society of Plant Physiologists. Plant physiology. June 1980. v. 65 (6). p. 1096-1098. ill. 16 ref. (NAL Call No.: 450 P692).

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2,4-D (2,4-dichlorophenoxy acetic acid) metabolism in soybean cell suspensions.

Davis, D.G. Lamoureux, G.L. Grand Forks, N.D., The Academy. Proceedings of the North Dakota Academy of Science. Apr 1981. v. 35. p. 36. (NAL Call No.: 500 N813).

PLANT TAXONOMY AND GEOGRAPHY

0352

New species of Chalara and Scytalidium isolated from cysts of *Heterodera glycines* (Chalara hylalina, Scytalidium fulvum, Fungi, description, soybean cyst nematode parasites).

Morgan-Jones, G. Gintis, B.O.; Rodriguez-Kabana, R. Bronx, N.Y. : The New York Botanical Garden. Mycologia. Mar/Apr 1984. v. 76 (2). p. 211-217. ill. Includes references. (NAL Call No.: 450 M99).

0353

Response of soybeans to flood irrigation (a preliminary report) (Water stress, yield effects, Louisiana).

Griffin, J.L. Habetz, R.J.; Regan, R.P. Crowley : The Station. Annual progress report - Louisiana, Rice Experiment Station. 1982. 1982. (74th). p. 350-358. ill. Includes references. (NAL Call No.: 100 L93 (3)).

PROTECTION OF PLANTS

0354

Alachlor and trifluralin (herbicides) effects on nutrient uptake in oats and soybeans (Inhibition of root and shoot growth).
Bucholtz, D.L. Lavy, T.L. Madison. Agronomy journal American Society of Agronomy. Jan/Feb 1979. v. 71 (1). p. 24-26. ill. 18 ref. (NAL Call No.: 4 AM34P).

0355

Centennial, a new soybean variety with nematode resistance (Yields).
Dunphy, E.J. Brim, C.A. Raleigh, N.C., The Service. AG.North Carolina State University. Agricultural Extension Service. July 1979. July 1979. (174). 4 p. ill. (NAL Call No.: S544.3.N6N62).

0356

Characterization of deer damage to soybean plants.
DeCalesta, D.S. Schwendeman, D.B. Washington. Bulletin Wildlife Society. Winter 1978. v. 6 (4). p. 250-253. ill. 13 ref. (NAL Call No.: SK357.A1W5).

0357

Comparative phytotoxicity of several nitrification inhibitors to soybean plants.
Maftoun, M. Sheibany, B. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. Nov/Dec 1979. v. 27 (6). p. 1365-1368. ill. 30 ref. (NAL Call No.: 381 J8223).

0358

Compatibility and phytotoxicity of herbicide-fertilizer combinations (Tested on oats and soybeans, phytotoxicity).
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0359

Continuous beans don't have to mean continuous problems (Control of insects and diseases in soybeans).
Shumate, J. St. Louis, Mo., American Soybean Association. Soybean digest. May/June 1979. v. 39 (7). p. 16-b. ill. (NAL Call No.: 60.38 S09).

0360

Critical manganese deficiency level of soybean related to leaf position (Physiological age).
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0361

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0362

Developments in crop protection of Glycine (soybeans, includes breeding for disease and pest resistance).
Yang, C.Y. Reprints - United States Dept. of Agriculture. 113 ref. (NAL Call No.: AS21.A8U5/USDA).

0363

Dicamba volatility (Herbicide drift injury to soybeans, maize and Abutilon theophrasti).
Behrens, R. Lueschen, W.E. Champaign, Ill., Weed Science Society of America. Weed science. Sept 1979. v. 27 (5). p. 486-493. ill. 12 ref. (NAL Call No.: 79.8 W41).

0364

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White, M.C. Decker, A.M. Madison. Agronomy journal American Society of Agronomy. Jan/Feb 1979. v. 71 (1). p. 121-126. ill. 31 ref. (NAL Call No.: 4 AM34P).

0365

Differential cultivar tolerance in soybean to phytotoxic levels of soil Zn. II. Range of Zn additions and the uptake and translocation of Zn, Mn, Fe, and P (Zinc, manganese, iron, and phosphorus).
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(PROTECTION OF PLANTS)

0366

Differential responses of plant foliage
(*Tradescantia* sp., *Pteridium aquilinum*, *Quercus palustris*, and soybeans) to simulated acid rain
(Air pollutants, adverse effects).
Evans, L.S. Curry, T.M. Columbus, Ohio,
Botanical Society of America. American journal of botany. Sept 1979. v. 66 (8). p. 953-962.
ill. 21 ref. (NAL Call No.: 450 AM36).

0367

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metribuzin sensitivity.
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Association of Official Seed Analysts. Journal
of seed technology. 1977. v. 2 (1). p. 1-10.
ill. 18 ref. (NAL Call No.: SB113.2.U6).

0368

Disease control vital for crops (Maize,
soybeans, nematodes, stem canker).
Garrett, W. Atlanta, Ga. : Department of
Agriculture. Farmers & consumers market
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(NAL Call No.: 280.39 G292).

0369

Disease outlook: wet weather spells trouble
(*Heterodera glycines*, soybeans, fungus
diseases).
Walsten, M. St. Louis, American Soybean
Association. Soybean digest. Feb 1979. v. 39
(4). p. 42S-43S. ill. (NAL Call No.: 60.38
S09).

0370

Dissipation of ¹⁴C (carbon isotope)
N-nitroso-di-N-propylamine (herbicide) from
field soil and residue determinations in
field-grown soybeans.
Berard, D.F. Rainey, D.P. New York, Springer.
Bulletin of environmental contamination and
toxicology. Sept 1979. v. 23 (1/2). p. 141-144.
ill. 4 ref. (NAL Call No.: RA1270.P35A1).

0371

The distribution of the soybean cyst nematode,
Heterodera glycines in Louisiana.
Price, M. Yik, C.P. St. Paul, American
Phytopathological Society. Phytopathology. May
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P56).

0372

Early modifications of the internodal anatomy of
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(herbicide injury, resistance).
Pizzolato, T.D. Regehr, D.L. Ottawa, National
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0373

An economic analysis of controlling soybean
cyst nematodes (*Heterodera glycines*) on
soybeans.
Welch, E.R. May, R.D. Dallas. The Cotton gin
and oil mill press. Feb 11, 1978. v. 79 (3). p.
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0374

Effect of carbon dioxide concentration on
growth and dry matter production of crop
plants. VI. Effect of oxygen concentration on
the carbon dioxide-dry matter production
relationship in some C3- and C4 (carbon
pathway)-crop species (Rice, soybeans, Japanese
millet and maize).
Imai, K. Murata, Y. Tokyo, Nihon Sakumotsu
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journal of crop science Nihon Gakkai Sakumotsu.
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0375

The effect of diflubenzuron and fentin
hydroxide on soybean seed quality (Cultivars,
pesticides injury).
Hatzios, K.K. Penner, D. East Lansing,
Association of Official Seed Analysts. Journal
of seed technology. 1977. v. 2 (1). p. 73-80.
ill. 16 ref. (NAL Call No.: SB113.2.U6).

0376

The effect of surfactant and environment on the
toxicity of metriflufen to soybeans (*Glycine max*) and johnsongrass (*Sorghum halepense*).
McWhorter, C.G. Champaign, Ill., Weed Science
Society of America. Weed science. Nov 1979. v.
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79.8 W41).

0377

Effects of air pollutants (carbon monoxide,
nitrogen dioxide and sulphur dioxide) on seed
germinability (cocklebur (*Xanthium
pennsylvanicum*), pigweed (*Amaranthus
retroflexus*), wild mustard (*Brassica kaber*),
giant ragweed (*Ambrosia trifida*) and soybean
(*Glycine max*)).

Chakrabarti, A.G. New York. Bulletin of environmental contamination and toxicology. Apr 1979. v. 21 (6). p. 749-755. ill. 8 ref. (NAL Call No.: RA1270.P35A1).

0378

Effects of environment on the toxicity of glyphosate to johnsongrass (*Sorghum halepense*) and soybeans (*Glycine max*).
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0379

Effects of sulfuric acid mist on plant canopies (Corn and soybeans, injuries).

Wedding, J.B. Ligotke, M. Washington, American Chemical Society. Environmental science & technology. July 1979. v. 13 (7). p. 875-878. ill. 11 ref. (NAL Call No.: TD420.A1E5).

0380

The effects of temperature on *Pratylenchus scribneri* and *Pratylenchus allenii* (nematodes) populations on soybeans and tomatoes.

Dickerson, O.J. Ames, Iowa Society of Nematologists. Journal of nematology. Jan 1979. v. 11 (1). p. 23-26. ill. 14 ref. (NAL Call No.: QL391.N4J62).

0381

Effects of (the root-knot nematode) *Meloidogyne incognita* on nitrogen fixation in soybean.

Baldwin, J.G. Barker, K.R. Ames, Iowa, Society of Nematologists. Journal of nematology. Apr 1979. v. 11 (2). p. 156-161. ill. 18 ref. (NAL Call No.: QL391.N4J62).

0382

The farm pesticide industry.

Eichers, T.R. Washington, D.C., The Department. Extract: The primary objective of this study is to analyze the nature of the pesticide industry by smaller component markets (submarkets) and evaluate its structure, conduct, and performance. The study also examines some of the implications of pesticide regulations on the pesticide industry and on farm pesticide use. Agricultural economic report - United States Dept. of Agriculture. Sept 1980. Sept 1980. (461). 24 p. 39 ref. (NAL Call No.: A281.9 AG8A).

0383

Field assessment of air pollution-induced soybean yield losses (Ozone, photochemical oxidants).

Howell, R.K. Koch, E.J. Madison. Agronomy journal American Society of Agronomy. Mar/Apr 1979. v. 71 (2). p. 285-288. ill. 21 ref. (NAL Call No.: 4 AM34P).

0384

A field estimate of SO₂ (sulfur dioxide) deposition velocities to rapidly growing soybeans (Pollutant transport).

Sprugel, D.G. Miller, J.E. Dordrecht, Holland, D. Reidel Pub. Co. Water, air, and soil pollution. Aug 1979. v. 12 (2). p. 233-236. ill. 12 ref. (NAL Call No.: TD172.W36).

0385

Fighting soybean worms: high gallonages not needed for good control.

Cromwell, R.P. Johnson, F.A. San Francisco, California Farmer Publishing Company. Agrichemical age. Nov/Dec 1979. v. 23 (9). p. 22. ill. (NAL Call No.: 381 AG85).

0386

Five planter meters tested for damage to soybean seed.

Paulsen, M.R. Nave, W.R. Urbana, Agricultural Experiment Station. Illinois research. Spring 1979. v. 21 (2). p. 10-11. ill. (NAL Call No.: 100 IL64).

0387

A general view of plant protection in the People's Republic of China with special reference to soybean pests and diseases.

Shen, C.V. Minneapolis, Minn. : Published for the Congress by Burgess Pub., c1981. Proceedings of symposia : IX International Congress of Plant Protection, Washington, D.C., U.S.A., August 5-11, 1979 / editor, Thor Kommedahl. p. 524-525. (NAL Call No.: SB951.I5 1979).

0388

Genetic variability for resistance to propanil (herbicide) injury in soybeans.

Karazawa, M. Caviness, C.E. Madison, Wis., Crop Science Society of America. Crop science. Sept/Oct 1979. v. 19 (5). p. 739-740. ill. 14 ref. (NAL Call No.: 64.8 C883).

(PROTECTION OF PLANTS)

0389

Genotypic evaluation for iron deficiency chlorosis in soybeans by visual scores and chlorophyll concentration.

Rodriguez de Cianzio, S. Fehr, W.R. Madison, Wis., Crop Science Society of America. Crop science. Sept/Oct 1979. v. 19 (5). p. 644-646. ill. 12 ref. (NAL Call No.: 64.8 C883).

0390

Growth and specific nodule activity of soybean (inoculated with *Rhizobium japonicum*) during application and recovery of a leaf moisture stress.

Patterson, R.P. Raper, C.D. Jr. Bethesda, Md., American Society of Plant Physiologists. Plant physiology. Oct 1979. v. 64 (4). p. 551-556. ill. 16 ref. (NAL Call No.: 450 P692).

0391

Growth inhibition of cotton (*Gossypium hirsutum*) and soybean (*Glycine max*) roots and shoots by three dinitroaniline herbicides (Phytotoxicity).

Murray, D.S. Street, J.E. Champaign, Ill., Weed Science Society of America. Weed science. May 1979. v. 27 (3). p. 336-342. ill. 8 ref. (NAL Call No.: 79.8 W41).

0392

Histological study of the compatible and incompatible interaction of soybeans and *Meloidogyne incognita*.

Kaplan, D.T. Thomason, I.J. Ames, Iowa, Society of Nematologists. Journal of nematology. Oct 1979. v. 11 (4). p. 338-343. ill. 29 ref. (NAL Call No.: QL391.N4J62).

0393

Improving the field production environment for soybeans (Cultivation practices, application of fertilizers, crop protection from weeds, insects and diseases).

Lam-Sanchez, A. Champaign, Ill., The Society. Journal of the American Oil Chemists' Society. Mar 1981. v. 58 (3). p. 128-130. Includes 15 ref. (NAL Call No.: 307.8 J82).

0394

Influence of rate and source of potassium on soybean cyst nematode (*Heterodera glycines*) reproduction on soybean seedlings.

Luedders, V.D. Shannon, J.G. Beltsville, Md., Science and Education Administration, U.S. Dept. of Agriculture. Plant disease reporter. July 1979. v. 63 (7). p. 558-560. ill. 9 ref. (NAL Call No.: 1.9 P69P).

0395

Influence of site of uptake of fluridone (herbicide) on early development of soybean (*Glycine max*) and cotton (*Gossypium hirsutum*) (Injuries).

Rafii, Z.E. Ashton, F.M. Champaign, Ill., Weed Science Society of America. Weed science. May 1979. v. 27 (3). p. 321-327. ill. 9 ref. (NAL Call No.: 79.8 W41).

0396

The influence of temperature on *Meloidogyne incognita* (nematodes) on soybean.

Nardacci, J.F. Barker, K.R. Ames, Iowa Society of Nematologists. Journal of nematology. Jan 1979. v. 11 (1). p. 62-70. ill. 27 ref. (NAL Call No.: QL391.N4J62).

0397

Influence of temperature on population development of eight species of *Pratylenchus* on soybean (Nematodes).

Acosta, N. Malek, R.B. Ames, Iowa, Society of Nematologists. Journal of nematology. July 1979. v. 11 (3). p. 229-232. ill. 11 ref. (NAL Call No.: QL391.N4J62).

0398

Interaction of selected insecticide-herbicide combinations on soybeans (*Glycine max*) (Injury, population stand, and grain yield).

Hayes, R.M. Yeargan, K.V. Champaign, Ill., Weed Science Society of America. Weed science. Jan 1979. v. 27 (1). p. 51-54. ill. 17 ref. (NAL Call No.: 79.8 W41).

0399

Interactions of *Meloidogyne incognita* and *Rotylenchulus reniformis* with selected soybean varieties (Nematodes).

Lim, B.K. Castillo, M.B. Laguna, Kalikasan. Kalikasan. 1978. v. 7 (2). p. 165-176. ill. 11 ref. (NAL Call No.: QH301.K3).

0400

Manganese concentration in soybean leaves as affected by cultivars and soil properties (Includes toxicity).

Jones, W.F. Nelson, L.E. New York, Dekker. Communications in soil science and plant analysis. 1979. v. 10 (5). p. 821-830. ill. 10 ref. (NAL Call No.: S590.C63).

0401

Monitoring soybeans for foliar diseases. Plots throughout Illinois help scientists learn about the incidence, severity, and location of diseases.

Pataky, J.K. Lim, S.M. Urbana, The Station. Illinois research.Illinois. Agricultural Experiment Station. Summer 1979. v. 21 (3). p. 3-4. map. (NAL Call No.: 100 IL64).

0402

More control-less pesticide (Soybean pest control).

Harper, J.D. Backman, P.A.; Rodriguez-Kabana, R.; Williams, J.C.; Walker, R.H. Auburn, The Station. Highlights of agricultural research - Alabama, Agricultural Experiment Station. Fall 1980. v. 27 (3). p. 9. ill. (NAL Call No.: 100 AL1H).

0403

Multiple defense evens the odds against nematodes (Heterodera glycines, pest of soybeans).

Marking, S. St. Louis, Mo., American Soybean Association. Soybean digest. May/June 1979. v. 39 (7). p. 22-23. ill. (NAL Call No.: 60.38 S09).

0404

New soybean disease discovered (Soybean cyst nematode, Heterodera glycines).

MacDonald, D.H. St. Paul, University of Minnesota Agricultural Experiment Station. Minnesota science. Fall 1978. v. 33 (4). p. 3-4. ill. (NAL Call No.: 100 M668).

0405

New varieties boost (soy) bean yields (Variety selection for regional climates).

Blair, J. St. Louis, Mo., American Soybean Association. Soybean digest. May/June 1981. v. 41 (7). p. 32b. (NAL Call No.: 60.38 S09).

0406

Observations on the relationships between a vesicular-arbuscular fungus (*Glomus* sp.), a fungivorous nematode (*Aphelenchus avenae*), and the growth of soybeans.

Salawu, E.O. Estey, R.H. Saint-Hyacinthe, Quebec, Quebec Society for the Protection of Plants. Phytoprotection. June 1979. v. 60 (2). p. 99-102. ill. 9 ref. (NAL Call No.: 464.8 P566).

0407

Occurrence and distribution of the soybean cyst nematode (*Heterodera glycines*) in Alabama.
Gray, F.A. Rodriguez-Kabana, R. Beltsville, Md., Science and Education Administration, U.S. Dept. of Agriculture. Plant disease reporter. Apr 1979. v. 63 (4). p. 267-270. ill., map. 9 ref. (NAL Call No.: 1.9 P69P).

0408

Ozone and sulfur dioxide effects on reproduction and host-parasite relationships of selected plant-parasitic nematodes (Air pollutants, Soybeans, Begonia).
Weber, D.E. Reinert, R.A. St. Paul, American Phytopathological Society. Phytopathology. June 1979. v. 69 (6). p. 624-628. ill. 24 ref. (NAL Call No.: 464.8 P56).

0409

Pest (insects, diseases, weeds) control in soybeans--1979.

Doersch, R.E. Doll, J.D. Madison, Wis., The Programs. Publication - Cooperative Extension Programs. University of Wisconsin - Extension.Wisconsin. University. Cooperative Extension Programs. Jan 1979. Jan 1979. (A2782). 23 p. ill. (NAL Call No.: S544.3.W6W53).

0410

Pesticide interactions in soybeans.

Schmitt, D.P. Corbin, F.T.; Bradley, J.R. Jr.; Van Duyn, J.W. San Francisco, California Farmer. Agrichemical age. Jan 1981. v. 25 (1). p. 54-55. ill. (NAL Call No.: 381 AG85).

0411

Photosynthetic response of field-grown soybeans to fumigations with sulphur dioxide.

Muller, R.N. Miller, J.E. Oxford, Blackwell Scientific Publications. The Journal of applied ecology. Aug 1979. v. 16 (2). p. 567-576. ill. Bibliography p. 575-576. (NAL Call No.: 410 J828).

0412

Physiological responses of soybean (*Glycine max*) plants to metribuzin (Photosynthesis inhibitors, sublethal effects, nitrogen metabolism).

Fedtke, C. Champaign, Ill., Weed Science Society of America. Weed science. Mar 1979. v. 27 (2). p. 192-195. ill. 29 ref. (NAL Call No.: 79.8 W41).

(PROTECTION OF PLANTS)

0413

Picloram (herbicide) translocation and redistribution in soybean plants following root uptake.

Gaudiel, R. Born, W.H. vanden. New York, Academic Press. Pesticide biochemistry and physiology. July 1979. v. 11 (1/3). p. 129-134. ill. 17 ref. (NAL Call No.: SB951.P49).

0414

Polychlorinated biphenyls: phytotoxicity, absorption and translocation by plants, and inactivation by activated carbon (Effects on soybeans and fescue).

Weber, J.B. Mrozek, E. Jr. New York, Springer Verlag. Bulletin of environmental contamination and toxicology. Oct 1979. v. 23 (3). p. 412-417. ill. 15 ref. (NAL Call No.: RA1270.P35A1).

0415

Prevention of monocarpic senescence in soybeans with auxin and cytokinin: an antidote for self-destruction.

Nooden, L.D. Kahanak, G.M. Washington, D.C., American Association for the Advancement of Science. Science. Nov 16, 1979. v. 206 (4420). p. 841-843. ill. 21 ref. (NAL Call No.: 470 SCI2).

0416

Private eyes detect yield robbers (of soybeans, insect and diseases).

Marking, S. Abbott, S. St. Louis, Mo., American Soybean Association. Soybean digest. May/June 1979. v. 39 (7). p. 16-f-16-g. ill. (NAL Call No.: 60.38 S09).

0417

A rapid technique for screening soybeans for reniform nematode resistance (*Rotylenchulus reniformis*).

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0419

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0421

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Soybean pest management.

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0437

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Pedigo, L.P. Higgins, R.A.; Hammond, R.B.; Bechinski, E.J. Boca Raton, Fla., CRC Press. CRC handbook of pest management in agriculture. 1981. Literature review. v. 3. p. 417-537. ill., map. 400 ref. (NAL Call No.: SB950.C7).

0438

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0440

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0442

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Siemens, J.C. Shurtleff, M.C. Urbana, Ill., The Service. Circular. Illinois. University. Cooperative Extension Service. June 1979. June 1979. (1172). 22 p. ill. 1 ref. (NAL Call No.: 275.29 IL62C).

0444

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0445

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0446

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0447

Use of planting time application of ethylene dibromide for control of plant parasitic nematodes (*Meloidogyne arenaria*, *Heterodera glycines*, *Meloidogyne hapla*) on soybeans: new uses for an old fumigant.
Rodriguez-Kabana, R. King, P.S. Auburn, Agricultural Experiment Station of Auburn University. Highlights of agricultural research. Spring 1979. v. 26 (1). p. 18-19. (NAL Call No.: 100 AL1H).

0448

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0450

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0456

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Newsom, L.D.ISSODB. Urbana : International Agricultural Publications, College of Agriculture, University of Illinois. INTSOY International Soybean Program series. July 1983. July 1983. (25). p. 40-51. Includes references. (NAL Call No.: TX558.S715).

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0453

Integrated pest management : decision guide.
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0454

An overview of the epidemiology of selected fungal, nematode, and seedborne pathogens of soybeans.

Ford, R.E.ISSODB. Urbana : International Agricultural Publications, College of Agriculture, University of Illinois. INTSOY International Soybean Program series. July 1983. July 1983. (25). p. 167-168. (NAL Call No.: TX558.S715).

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0458

Adult seedcorn maggots in soybeans relay intercropped into winter wheat (*Delia platura*, *Glycine max*, *Triticum aestivum*).
Hammond, R.B. EVETB. Jeffers, D.L. College Park : Entomological Society of America. Environmental entomology. Oct 1983. v. 12 (5). p. 1487-1489. Includes references. (NAL Call No.: QL461.E532).

0459

Alfalfa hoppers feast on soybeans.
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0460

Application of a baculovirus of *Pseudoplusia includens* to soybean: efficacy and seasonal persistence (Biological control).
McLeod, P.J. Young, S.Y.; Yearian, W.C. College Park, Md., Entomological Society of America. Environmental entomology. Apr 15, 1982. v. 11 (2). p. 412-416. ill. Includes 11 ref. (NAL Call No.: QL461.E532).

0461

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Reichelderfer, K.H. Bender, F.E. Lexington, Ky., American Agricultural Economics Association. Extract: A microanalytic simulation model of the interrelationships among Mexican bean beetle pest populations, populations of wasps that are parasites of the pest, chemical control inputs, and soybean yield is presented. Points from output response surfaces obtained through simulations of alternative biological and chemical pest control strategies are utilized in conjunction with cost data to construct benefit-cost ratios for each intraseasonal control option studied. Comparison of ratios indicates that biological of the pest is, by benefit-cost criteria and from both private and social perspectives, a competitive alternative to chemical control. American journal of agricultural economics. May 1979. v. 61 (2). p. 258-267. 19 ref. (NAL Call No.: 280.8 J822).

0464

Arthropod predators on cotton, corn, tobacco, and soybeans in South Carolina.
Roach, S.H. AR-SO. Athens, Ga., The Society. Journal - Georgia Entomological Society. Georgia Entomological Society. Apr 1980. v. 15 (2). p. 131-138. ill. 8 ref. (NAL Call No.: QL461.G4).

0465

Assessment of the role of natural enemies in regulation of soybean pest populations (Arthropod predators, parasites and entomopathogens, United States).
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0466

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0467

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0468

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0469

Bean leaf beetle (*Cerotoma trifurcata*): Micro-spatial patterns and sequential sampling of (soybean) field populations (in Washington County, North Carolina).
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AR42F).

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0471

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Lentz, G.L. Hayes, R.W.; Chambers, A.Y. College Park : Entomological Society of America. Insecticide and acaricide tests. 1982. v. 7. p. 185-186. (NAL Call No.: SB950.A1I49).

0472

Bean pod mottle disease in soybeans in Mississippi (Cerotoma trifurcata, vector). Pitre, H.N. MS. Mississippi State, The Station. Research report - Mississippi Agricultural & Forestry Experiment Station. July 1980. v. 5 (12). 4 p. ill., map. 8 ref. (NAL Call No.: S79.E37).

0473

Bean pod mottle (virus) disease in soybeans (Cerotoma trifurcata, vectors).

Pitre, H.N. MS. Mississippi State, The Station. MAFES research highlights - Mississippi Agricultural & Forestry Experiment Station. Sept 1980. v. 43 (9). p. 1-3. ill., map. (NAL Call No.: 100 M69MI).

0474

Bioactivity of the postemergent herbicides acifluorfen and bentazon on *Geocoris punctipes* (Say) (Hemiptera: Lygaeidae) (*Glycine max*). Farlow, R.A. Pitre, H.N. College Park, Md. : Entomological Society of America. Journal of economic entomology. Feb 1983. v. 76 (1). p. 200-203. Includes references. (NAL Call No.: 421 J822).

0475

Biological control of green clover worm (*Plathypena scabra*) on soybean (with *Anticarsia gemmatalis*).

Mueller, A.J. Kunnalaca, S. Fayetteville, The Station. Arkansas farm research. Arkansas Agricultural Experiment Station. Sept/Oct 1979. v. 28 (5). p. 8. ill. (NAL Call No.: 100 AR42F).

0476

The biology and ecology of *Nomuraea rileyi* and a program for predicting its incidence on *Anticarsia gemmatalis* in soybean.

Kish, Leslie P. Gainesville Agricultural Experiment Stations, Institute of Food and Agricultural Sciences, University of Florida 1978. v. 48 p. : ill. -. Bibliography: p. 47-48. (NAL Call No.: 100 F66S (1) No.795).

0477

Biology and pest potential of *Anavitrinella pampinaria* (Lepidoptera: Geometridae) in soybeans.

Marston, N.L. JEENAI. Davis, D.G.; Garcia, C.; Gebhardt, M.R. College Park : Entomological Society of America. Journal of economic entomology. Dec 1983. v. 76 (6). p. 1248-1254. ill. Includes references. (NAL Call No.: 421 J822).

0478

Biology of *Microplitis demolitor* (Hymenoptera: Braconidae), an imported parasitoid of *Heliothis* (Lepidoptera: Noctuidae) spp. and the soybean looper, *Pseudoplusia includens* (Lepidoptera: Noctuidae).

Shepard, M. EVETB. Powell, J.E.; Jones, W.A. Jr. College Park : Entomological Society of America. Environmental entomology. June 1983. v. 12 (3). p. 641-645. ill. Includes references. (NAL Call No.: QL461.E532).

0479

Biology of the soybean looper, *Pseudoplusia includens*: characterization of last-stage larvae (Louisiana, USA).

Shour, M.H. Sparks, T.C. College Park, Md., The Society. Annals of the Entomological Society of America. Nov 1981. v. 74 (6). p. 531-535. ill. 18 ref. (NAL Call No.: 420 EN82).

0480

Bollworm on soybean (*Heliothis*).

Mueller, A.J. Engroff, B.W. Fayetteville, Ark., The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. Jan/Feb 1981. v. 30 (1). p. 9. ill. (NAL Call No.: 100 AR42F).

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0481

Calibration ratios for sampling soybean Lepidoptera (*Heliothis zea*, *Pseudoplusia includens*, *Anticarsia gemmatalis*): effect of larval species, larval size, plant growth stage and individual sampler.

Marston, N.L. Dickerson, W.A. Baltimore, Entomological Society of America. Journal of economic entomology. Feb 15, 1979. v. 72 (1). p. 110-114. ill. 14 ref. (NAL Call No.: 421 J822).

0482

Carabid beetles in soybean agroecosystems (*Harpalus pensylvanicus*).

House, G.J. All, J.N. College Park, Md., Entomological Society of America. Environmental entomology. Apr 1981. v. 10 (2). p. 194-196. ill. 11 ref. (NAL Call No.: QL461.E532).

0483

Characteristics and distribution of itchgrass in Louisiana (*Rottboellia exaltata*, sugarcane, soybeans).

White, J.C. Rhodes, D.G.; Walker, H.L. New Orleans, The Region. Agricultural reviews and manuals. ARM-S - United States, Dept. of Agriculture, Science and Education Administration. Agricultural Research, Southern Region. Nov 1979. Nov 1979. (7). 6 p. ill. 7 ref. (NAL Call No.: aS21.A75U65).

0484

Chemically mediated reproductive isolation between cabbage looper and soybean looper moths (Lepidoptera: Noctuidae) (*Trichoplusia ni*, *Pseudoplusia includens*).

Leppa, N.C. EVETB. College Park : Entomological Society of America. Environmental entomology. Dec 1983. v. 12 (6). p. 1760-1765. ill. Includes references. (NAL Call No.: QL461.E532).

0485

Citrus pulp bait insecticide formulations for control of velvetbean caterpillar and bean leaf beetle on soybean (*Anticarsia gemmatalis*, *Cerotoma trifurcata*).

Harper, J.D. Gainesville, Florida Entomological Society. Florida entomologist. Dec 1981. v. 64 (4). p. 538-540. (NAL Call No.: 420 F662).

0486

Common soybean insects / Iowa State University. Document available from: Iowa State University, Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011 1976. This publication describes and illustrates fifteen common soybean insects. 1 sheet : ill. (NAL Call No.: Document available from source.).(NAL Call No.: PM 463-6).

0487

Comparative consumption rates for selected insect predators of two defoliating caterpillar species of soybean in Louisiana (*Lebia analis*, *Calosoma alternans sayi*, biological control of *Pseudoplusia includens*, *Heliothis zea*, soybean looper, corn earworm).

Brown, D.W. Goyer, R.A. Athens, Ga. : The Society. Journal of the Georgia Entomological Society. July 1984. v. 19 (3). p. 299-303. Includes 7 references. (NAL Call No.: QL461.G4).

0490

Comparative resistance of multiple insect-resistant soybean genotypes to the soybean looper (*Pseudoplusia includens*, *Epilachna*, *Cerotoma trifurcata*, *Heliothis*). Smith, C.M. Gilman, D.F. College Park, Md.. Entomological Society of America. Journal of economic entomology. Aug 1981. v. 74 (4). p. 400-403. ill. 15 ref. (NAL Call No.: 421 J822).

0491

Consumption and development of velvetbean caterpillar as influenced by soybean phenology (*Anticarsia gemmatalis*, southeastern USA). Moscardi, F. Barfield, C.S.; Allen, G.E. College Park, Md., Entomological Society of America. Environmental entomology. Dec 1981. v. 10 (6). p. 880-884. ill. Includes 1 p. ref. (NAL Call No.: QL461.E532).

0492

Continuous beans don't have to mean continuous problems (Control of insects and diseases in soybeans).

Shumate, J. St. Louis, Mo., American Soybean Association. Soybean digest. May/June 1979. v. 39 (7). p. 16-b. ill. (NAL Call No.: 60.38 S09).

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0493

Control insects in soybeans (Includes mites).
Adams, D.B. Horton, D.L.; Todd, J.W. Athens, Ga. : The Service. Circular - Cooperative Extension Service, University of Georgia. Feb 1984. Feb 1984. (720, rev.). 12 p. (NAL Call No.: 275.29 G29C).

0494

Control insects on soybeans (Damage to roots, stems, foliage and bloom feeders, pod feeders, Arkansas).
Jones, B.F. Little Rock, Ark., The Service. EL - Cooperative Extension Service, University of Arkansas. Sept 1981. Sept 1981. (193). 8 p. ill. (NAL Call No.: 275.29 AR4LE).

0495

Control of yellow mosaic of soybean by systemic insecticides, 1976-78 (Soybean (*Glycine max* 'Bragg'), mung bean yellow mosaic, MYMV, whitefly; *Bemisia tabaci* Genn. (Vector)).
Dhingra, K.L. Chenulu, V.V. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1982. v. 37. p. 103. (NAL Call No.: 464.9 AM31R).

0496

Cooperation in soybean entomology.
Kogan, M. ISSOBB. Urbana : International Agricultural Publications, College of Agriculture, University of Illinois. INTSOY International Soybean Program series. July 1983. July 1983. (25). p. 180-183. (NAL Call No.: TX558.S715).

0497

Corn earworm and green cloverworm control on soybeans in Alabama (*Heliothis zea*, *Plathypena scabra*).
Rohlf, W.M. Mack, T.P. College Park : Entomological Society of America. Insecticide and acaricide tests. 1982. v. 7. p. 190. (NAL Call No.: SB950.A1I49).

0498

Correlation of the red imported fire ant (Hymenoptera: Formicidae) with reduced soybean yields in North Carolina (*Solenopsis invicta*).
Apperson, C.S. JEENA. Powell, E.E. College Park : Entomological Society of America. Journal of economic entomology. Apr 1983. v. 76 (2). p. 259-263. Includes references. (NAL Call No.: 421 J822).

0499

Crop rotation vs. monoculture. I. Insect control (Pests of maize, cotton, rice, soybeans, sorghum).
Barnes, G. Madison, Wis., American Society of Agronomy. Crops and soils magazine. Jan 1980. v. 32 (4). p. 15-17. ill. (NAL Call No.: 6 W55).

0500

Damage to soybean seeds and seedlings by larvae of the flea beetle *Systema frontalis* (Coleoptera: Chrysomelidae).
Riley, T.J. GENSA. Athens : The Society. Journal of the Georgia Entomological Society. July 1983. v. 18 (3). p. 291-293. ill. (NAL Call No.: QL461.G4).

0501

Determination of yield-loss relationships for two soybean defoliators by using simulated insect-defoliation techniques (*Cynthia cardui*, *Plathypena scabra*, Iowa).
Hammond, R.B. Pedigo, L.P. College Park, Md., Entomological Society of America. Journal of economic entomology. Feb 1982. v. 75 (1). p. 102-107. 2 p. ref. (NAL Call No.: 421 J822).

0502

Development, fecundity, and longevity of the tobacco budworm (Lepidoptera: Noctuidae) fed soybean, cotton, and artificial diet at three temperatures (*Heliothis virescens*).
Nadgauda, D. EVETB. Pitre, H. College Park : Entomological Society of America. Environmental entomology. Apr 1983. v. 12 (2). p. 582-586. Includes references. (NAL Call No.: QL461.E532).

0503

Development of a sampling program for estimation of pupal densities of green cloverworm (Lepidoptera: Noctuidae) in soybeans and evaluation of alternative sampling procedures (*Plathypena scabra*).
Bechinski, E.J. EVETB. Pedigo, L.P. College Park : Entomological Society of America. Environmental entomology. Feb 1983. v. 12 (1). p. 96-100. Includes references. (NAL Call No.: QL461.E532).

0504

Development of the fall armyworm on cotton, soybean and corn (*Spodoptera frugiperda*).
Pitre, H.N. GENSA. Hogg, D.B. Athens : The Society. Journal of the Georgia Entomological Society. Apr 1983. v. 18 (2). p. 182-187. Includes references. (NAL Call No.: QL461.G4).

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Stinner, R.E. Regniere, J.; Wilson, K. College Park, Md., Entomological Society of America. Environmental entomology. June 15, 1982. v. 11 (3). p. 538-543. Includes ref. (NAL Call No.: QL461.E532).

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Bass, M.H. AL. Reed, T.; Conley, J. Auburn, The Station. Highlights of agricultural research. Alabama. Agricultural Experiment Station. Spring 1980. v. 27 (1). p. 7. ill. (NAL Call No.: 100 AL1H).

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Dispersal of *Nezara viridula* and *Piezodorus guildinii* nymphs in soybeans.

Panizzi, A.R. Galileo, M.H.M.; Gastal, H.A.O.; Toledo, J.F.F.; Wild, C.H. College Park, Md., Entomological Society of America. Environmental entomology. June 15, 1980. v. 9 (3). p. 293-297. ill. 13 ref. (NAL Call No.: QL461.E532).

0509

Dispersion and sequential sampling of green cloverworm eggs in soybeans (*Plathypena scabra*).

Buntin, G.D. Pedigo, L.P. College Park, Md., Entomological Society of America. Environmental entomology. Dec 1981. v. 10 (6). p. 980-985. ill. Includes 21 ref. (NAL Call No.: QL461.E532).

0510

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references. (NAL Call No.: QL461.E532).

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Levinson, G.A. USDA. Waldbauer, G.P.; Kogan, M. College Park, Md., Entomological Society of America. Environmental entomology. Dec 1979. v. 8 (6). p. 1055-1058. ill. 15 ref. (NAL Call No.: QL461.E532).

0512

Distribution of bean pod mottle virus in Arkansas soybean as related to the bean leaf beetle, *Cerotoma trifurcata*, (Coleoptera:Chrysomelidae) population.

Hopkins, J.D. EVETB. Mueller, A.J. College Park : Entomological Society of America. Environmental entomology. Oct 1983. v. 12 (5). p. 1564-1567. Includes references. (NAL Call No.: QL461.E532).

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McPherson, R.M. Graves, J.B.; Allain, T.A. College Park, Md., Entomological Society of America. Environmental entomology. Dec 1979. v. 8 (6). p. 1041-1043. ill. 10 ref. (NAL Call No.: QL461.E532).

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McPherson, R.M. Allen, W.A. San Francisco, California Farmer Publishing Co. Agrichemical age. Apr 1981. v. 25 (4). p. 16, 18, 42. ill. (NAL Call No.: 381 AG85).

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Halbert, S.E. ISSOBD. Irwin, M.E.; Goodman, R.M. Urbana : International Agricultural Publications, College of Agriculture, University of Illinois. INTSOY International Soybean Program series. July 1983. July 1983. (25). p. 175-179. Includes references. (NAL Call No.: TX558.S715).

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Ecological impact of parathion in soybeans. I. Vegetative fauna. (Predatory arthropods, detrimental effects, insecticides, *Plathypena scabra*, natural control, Missouri field experiments). Marston, N.L. XATBA. Hennessey, M.K. Washington : The Department. Technical bulletin - United States Dept. of Agriculture. Dec 1982. Dec 1982. (1665). p. 1-7. ill. Includes references. (NAL Call No.: 1 AG84TE).

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Economic feasibility of a biological control technology using a parasitic wasp, *Pediobius foveolatus*, to manage Mexican bean beetle on soybeans. Reichelderfer, K.H. Washington, D.C., The Service. Agricultural economic report - United States Dept. of Agriculture, Economics, Statistics, and Cooperatives Service. Aug 1979. Aug 1979. (430). 20 p. 9 ref. (NAL Call No.: A281.9 AG8A).

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Effect of a resistant soybean genotype on the development of the soybean looper (Lepidoptera: Noctuidae) and an introduced parasitoid, *Microplitis demolitor* Wilkinson (Hymenoptera: Braconidae) (*Pseudoplusia includens*). Yanes, J. Jr. EVETB. Boethel, D.J. College Park : Entomological Society of America. Environmental entomology. Aug 1983. v. 12 (4). p. 1270-1274. Includes references. (NAL Call No.: QL461.E532).

0523

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0526

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Livingston, J.M. Yearian, W.C. College Park, Md., Entomological Society of America. Environmental entomology. Dec 1978. v. 7 (6). p. 823-828. illl. 18 ref. (NAL Call No.: QL461.E532).

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Burleigh, J.G. Katayama, R.W.; Hubbard, L. Fayetteville, Ark., The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. Nov/Dec 1980. v. 29 (6). p. 5. (NAL Call No.: 100 AR42F).

0528

Effect of planting dates and soybean cultivars on pod damage by corn earworm (*Heliothis zea*, resistance).

Joshi, J.M. USDA. Madison, Wis., Crop Science Society of America. Crop science. Jan/Feb 1980. v. 20 (1). p. 59-63. illl. 6 ref. (NAL Call No.: 64.8 C883).

0529

Effects of a predator complex on lepidopterous defoliators of soybean (*Anticarsia gemmatalis*, *Pseudaletia includens*, *Heliothis spp.*, *Plathypena scabra*).

Brown, D.W. Goyer, R.A. College Park, Md., Entomological Society of America. Environmental entomology. Apr 15, 1982. v. 11 (2). p. 385-389. illl. Includes 11 ref. (NAL Call No.: QL461.E532).

0530

Effects of actual and simulated seedcorn maggot (Diptera: Anthomyiidae) damage on soybean growth and yield.

Funderburk, J.E. EVETB. Pedigo, L.P. College Park : Entomological Society of America. Environmental entomology. Apr 1983. v. 12 (2). p. 323-330. illl. Includes references. (NAL Call No.: QL461.E532).

0531

Effects of air pollution on plant-insect interactions: increased susceptibility of greenhouse-grown soybeans to the Mexican bean beetle after plant exposure to SO₂ (Sulfur dioxide, *Epilachna varivestis*).

Hughes, P.R. Potter, J.E.; Weinstein, L.H. College Park, Md., Entomological Society of America. Environmental entomology. Feb 1982. v. 11 (1). p. 173-176. Includes 10 ref. (NAL Call No.: QL461.E532).

0532

Effects of artificial and insect defoliation (by the green cloverworm *Plathypena scabra*) on water loss from excised soybean leaves.

Hammond, R.B. Pedigo, L.P. Lawrence, Kan., The Society. Journal of the Kansas Entomological Society. Apr 1981. v. 54 (2). p. 331-336. 13 ref. (NAL Call No.: 420 K13).

0533

Effects of beet armyworm (Lepidoptera: Noctuidae) infestation levels on soybean (*Spodoptera exigua*).

Huffman, F.R. JEENA. Mueller, A.J. College Park : Entomological Society of America. Journal of economic entomology. Aug 1983. v. 76 (4). p. 744-747. Includes references. (NAL Call No.: 421 J822).

0534

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Mellors, W.K. Allegro, A.; Nsu, A.N. College Park, Md. : Entomological Society of America. Environmental entomology. Apr 1984. v. 13 (2). p. 561-567. Includes references. (NAL Call No.: QL461.E532).

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Mayse, M. SCSBA. Pitre, H.N.; Whitcomb, W. Mississippi State : Mississippi Agricultural and Forest Experiment Station. Southern cooperative series bulletin. June 1983. Regional Research Project S-74. June 1983. (285). p. 49-55. Includes references. (NAL Call No.: 100 G29SO).

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Ingram, K.T. Herzog, D.C.; Boote, K.J.; Jones, J.W.; Barfield, C.S. Madison, Wis., Crop Science Society of America. *Crop science*. Nov/Dec 1981. v. 21 (6). p. 961-968. ill. 22 ref. (NAL Call No.: 64.8 C883).

0537

Effects of diflubenzuron on food consumption by the soybean looper (Pseudoplusia includens).

Reed, T. Bass, M.H. College Park, Md., Entomological Society of America. *Journal of economic entomology*. Dec 1979. v. 72 (6). p. 912-913. ill. 1 ref. (NAL Call No.: 421 J822).

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Effects of Heliothis zea (Lepidoptera: Noctuidae) on soybean yield and quality.

Biever, K.D. JEENA. Thomas, G.D.; Boldt, P.E.; Ignoffo, C.M. College Park : Entomological Society of America. *Journal of economic entomology*. Aug 1983. v. 76 (4). p. 762-765. Includes references. (NAL Call No.: 421 J822).

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Huckaba, R.M. GENSA. Bradley, J.R.; Van Duyn, J.W. Athens : The Society. *Journal of the Georgia Entomological Society*. Apr 1983. v. 18 (2). p. 200-207. Includes references. (NAL Call No.: QL461.G4).

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The effects of Heterodera glycines upon nitrogen fixation in soybean and the influence of pH and inorganic ions on nematode activity / by Paul Speigle Lehman.

Lehman, Paul Speigle, 1939. 1971. Thesis (Ph.D.)--North Carolina State University at Raleigh, 1971. Photocopy. Ann Arbor, Mich. : University Microfilms, 1971. vi, 45 leaves ; 21 cm. Bibliography: leaves 43-44. (NAL Call No.: DISS 71-22,401).

0541

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Mueller, A.J. Engroff, B.W. College Park, Md., Entomological Society of America. *Journal of economic entomology*. Apr 1980. v. 73 (2). p. 271-275. ill. 9 ref. (NAL Call No.: 421 J822).

0542

Effects of interspecific competition and dietary stress on the velvetbean caterpillar and the soybean looper (Pseudoplusia includens, Anticarsia gemmatalis).

King, E.W. GENSA. Athens : The Society. *Journal of the Georgia Entomological Society*. Apr 1983. v. 18 (2). p. 176-181. Includes references. (NAL Call No.: QL461.G4).

0543

Effects of main-stem girdling of early vegetative stages of soybean plants by threecornered alfalfa hoppers (Homoptera: Membracidae) (Spissitulus festinus).

Mueller, A.J. JEENA. Jones, J.W. College Park : Entomological Society of America. *Journal of economic entomology*. Aug 1983. v. 76 (4). p. 920-922. Includes references. (NAL Call No.: 421 J822).

0544

Effects of micrometeorological conditions on survival and fecundity of the Mexican bean beetle (Epilachna varivestis) in soybean fields.

Sprengel, R.K. Rabb, R.L. College Park, Md., Entomological Society of America. *Environmental entomology*. Apr 1981. v. 10 (2). p. 219-221. 8 ref. (NAL Call No.: QL461.E532).

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Farlow, R.A. EVETB. Pitre, H.N. College Park : Entomological Society of America. *Environmental entomology*. Apr 1983. v. 12 (2). p. 552-557. Includes references. (NAL Call No.: QL461.E532).

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Sloderbeck, P.E. Edwards, C.R. College Park, Md., Entomological Society of America. *Journal of economic entomology*. Dec 1979. v. 72 (6). p. 850-853. ill. 8 ref. (NAL Call No.: 421 J822).

0547

Effects of systemic insecticide-nematicides on midseason pest and predator populations in soybean (Cerotoma trifurcata, Empoasca fabae, Sericothrips variabilis, Heterodera glycines).

Lentz, G.L. JEENA. Chambers, A.Y.; Hayes, R.M. College Park : Entomological Society of

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0549

Effects of temperature, relative humidity, and host plant on larval survival of the Mexican bean beetle, *Epilachna varivestis* Mulsant (Lima beans, soybeans, North Carolina).

Wilson, K.G. Stinner, R.E.; Rabb, R.L. College Park, Md., Entomological Society of America. Environmental entomology. Feb 1982. v. 11 (1). p. 121-126. ill. Includes 1 p. ref. (NAL Call No.: QL461.E532).

0550

The effects of three cultural variables on the incidence of *Nomuraea rileyi*, phytophagous Lepidoptera, and their predators on soybeans (in North Carolina).

Sprengle, R.K. Brooks, W.M. College Park, Md., Entomological Society of America. Environmental entomology. Apr 1979. v. 8 (2). p. 334-339. ill. 4 ref. (NAL Call No.: QL461.E532).

0551

Effects of tobacco budworm (Lepidoptera: Noctuidae) infestations on pod damage and yield loss in soybean (*Heliothis virescens*).

McWilliams, J.M. College Park, Md. : Entomological Society of America. Journal of economic entomology. Apr 1984. v. 77 (2). p. 364-369. Includes references. (NAL Call No.: 421 J822).

0554

Effects of *Vairimorpha necatrix* in sprays and corn meal on *Heliothis* species in tobacco, soybeans, and sorghum (Biological control). Fuxa, J.R. Brooks, W.M. College Park, Md., Entomological Society of America. Journal of economic entomology. June 1979. v. 72 (3). p. 462-467. ill. 30 ref. (NAL Call No.: 421 J822).

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Shelton, M.D. EVETB. Edwards, C.R. College Park : Entomological Society of America. Environmental entomology. Apr 1983. v. 12 (2). p. 296-298. Includes references. (NAL Call No.: QL461.E532).

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Yearian, W.C. Mueller, A.J. Mesquite, Haughton Publishing Co. The Cotton gin and oil mill press. July 24, 1982. v. 83 (15). p. 20. (NAL Call No.: 304.8 C822).

0557

Efficacy of synthetic pyrethroid insecticides on soybean.

Yearian, W.C. Mueller, A.J. Fayetteville, Ark.. The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. Jan/Feb 1982. v. 31 (1). p. 5. (NAL Call No.: 100 AR42F).

0558

Efficacy of three predaceous insect species in controlling the soybean podworm, *Heliothis zea* (Boddie) / by Robert M. Barry.

Barry, Robert M. (Robert Merritt). 1942. 1972. Thesis (Ph.D.)--University of Missouri, 1972. Photocopy of typescript. Ann Arbor: University Microfilms, 1973. xiii, 135 leaves : 21 cm. Bibliography: leaves 127-135. (NAL Call No.: DISS 73-7,005).

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Establishment of infestation and behavior of *Heliothis zea* on soybeans in the greenhouse. Pitre, H.N. Hillhouse, T.L. Athens, Ga., The Society. Journal of the Georgia Entomological Society. Jan 1981. v. 16 (1). p. 28-34. 17 ref. (NAL Call No.: QL461.G4).

0560

Estimating rates of arthropod predation on velvetbean caterpillar larvae in soybeans (*Anticarsia gemmatalis*).

Elvin, M.K. FETMA. Stimac, J.L.; Whitcomb, W.H. Gainesville : Florida Entomological Society. Florida entomologist. Sept 1983. v. 66 (3). p. 319-330. Includes references. (NAL Call No.: 420 F662).

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0561

Estimation of absolute larval densities and calibration of relative sampling methods for velvetbean caterpillar, *Anticarsia gemmatalis* (Hubner) in soybean (Florida).
Luna, J.M. Linker, H.M.; Stimac, J.L.; Rutherford, S.L. College Park, Md., Entomological Society of America. Environmental entomology. Apr 15, 1982. v. 11 (2). p. 497-502. ill. Ref. (NAL Call No.: QL461.E532).

0562

Evaluation of diflubenzuron for Mexican bean beetle (Coleoptera: Coccinellidae) control and impact on *Pediobius faveolatus* (Hymenoptera: Encyrtidae) (*Epilachna varivestis*, soybean).
Zungoli, P.A. Steinhauer, A.L.; Linduska, J.J. College Park, Md. : Entomological Society of America. Journal of economic entomology. Feb 1983. v. 76 (1). p. 188-191. Includes references. (NAL Call No.: 421 J822).

0563

Evaluation of four stink bug species (Nezara viridula, *Acrosternum hilare*, *Euschistus servus*, *Euschistus tristigmus*) from three genera affecting soybean yield and quality in Louisiana.
McPherson, R.M. Newsom, L.D. College Park, Entomological Society of America. Journal of economic entomology. Apr 15, 1979. v. 72 (2). p. 188-194. ill. 12 ref. (NAL Call No.: 421 J822).

0564

Evaluation of guazatine triacetate as an antifeedant/feeding deterrent for the green cloverworm (*Plathypena scabra*) on soybeans.
Higgins, R.A. Pedigo, L.P. College Park, Md., Entomological Society of America. Journal of economic entomology. Oct 1979. v. 72 (5). p. 680-686. ill. 15 ref. (NAL Call No.: 421 J822).

0565

Evaluation of methods for sampling predatory arthropods in soybeans (*Orius insidiosus*, *Nabis* spp., *Chrysopa* spp., Coccinellidae, *Anthicus cervinus*, Iowa).
Bechinski, E.J. Pedigo, L.P. College Park, Md., Entomological Society of America. Environmental entomology. June 15, 1982. v. 11 (3). p. 756-761. ill. Includes ref. (NAL Call No.: QL461.E532).

0566

Evaluation of soybean germ plasm for resistance to the bean leaf beetle, *Cerotoma trifurcata* (Forster), the southern green stink bug, *Nezara viridula* (Linnaeus), and the soybean looper, *Pseudoplusia includens* Walker / by Richard Leland Jensen.

Jensen, Richard Leland, 1937. 1971. Thesis (Ph.D.)--Louisiana State University and Agricultural and Mechanical College, 1971. Photocopy. Ann Arbor, Mich. : University Microfilms, 1972. x, 83 leaves ; 21 cm. Bibliography: leaves 51-53. (NAL Call No.: DISS 72-3,497).

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Harville, B.G. Elkins, M. Baton Rouge : The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1982. 1982. p. 275. (NAL Call No.: 100 L936).

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Evaluation of soybean lines selected for insect resistance.

Gilman, D.F. Elkins, M.; Smith, C.M. Baton Rouge, The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1980. 1980. p. 116-117. (NAL Call No.: 100 L936).

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0570

Evaluation of systemic insecticide applications for control of Mexican bean beetle on soybeans in Maryland (*Epilachna varivestis*, *Glycine max*).

Elden, T.C. Athens, Ga., The Society. Journal of the Georgia Entomological Society. Jan 1982. v. 17 (1). p. 54-59. Includes 4 ref. (NAL Call No.: QL461.G4).

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Fate of an insect growth regulator EL-494 in soybean callus tissue, soybean plants, and gypsy moth larvae (*Lymantria dispar*).
AbdelMonem, A.E. Mumma, R.D. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. May/June 1982. v. 30 (3). p. 536-542. ill. 111. Includes 12 ref. (NAL Call No.: 381 J8223).

0572

Fecal elimination of diflubenzuron by the soybean looper (*Pseudoplusia includens*).
Reed, T. Bass, M.H. Athens, Ga., The Society. Journal of the Georgia Entomological Society. Jan 1981. v. 16 (1). p. 91-95. ill. 3 ref. (NAL Call No.: QL461.G4).

0573

Feeding and developmental rates of the Mexican bean beetle (*Epilachna varivestis*) on soybeans.
McAvoy, T.J. Smith, J.C. College Park, Md., Entomological Society of America. Journal of economic entomology. Dec 1979. v. 72 (6). p. 835-836. ill. 6 ref. (NAL Call No.: 421 J822).

0574

Feeding behavior of Mexican bean beetle (*Epilachna varivestis*) on leaf extracts of resistant and susceptible soybean genotypes.
Smith, C.M. Wilson, R.F. College Park, Md., Entomological Society of America. Journal of economic entomology. June 1979. v. 72 (3). p. 374-377. ill. 13 ref. (NAL Call No.: 421 J822).

0575

Field and laboratory evaluations of soybean lines for resistance to corn earworm (*Heliothis zea*) leaf feeding).
Smith, C.M. Brim, C.A. Baltimore, Entomological Society of America. Journal of economic entomology. Feb 15, 1979. v. 72 (1). p. 78-80. ill. 6 ref. (NAL Call No.: 421 J822).

0576

Field cage evaluation of predators of the soybean looper, *Pseudoplusia includens* (Lepidoptera: Noctuidae).
Richman, D.B. Hemenway, R.C. Jr.; Whitcomb, W.H. College Park, Md., Entomological Society of America. Environmental entomology. June 15, 1980. v. 9 (3). p. 315-317. 9 ref. (NAL Call No.: QL461.E532).

0577

Flushing technique and sequential-count plan for green cloverworm (Lepidoptera: Noctuidae) moths in soybean (*Plathypena scabra*).
Pedigo, L.P. EVETB. Buntin, G.D.; Bechinski, E.J. College Park : Entomological Society of America. Environmental entomology. Dec 1982. v. 11 (6). p. 1223-1228. ill. 111. Includes references. (NAL Call No.: QL461.E532).

0578

Foliage consumption and damage potential of *Odontota horni* and *Baliosus nervosus* (Coleoptera: Chrysomelidae) on soybean (Iowa).
Buntin, G.D. JEENA. Pedigo, L.P. College Park : Entomological Society of America. Journal of economic entomology. Dec 1982. v. 75 (6). p. 1034-1037. ill. 8 ref. (NAL Call No.: 421 J822).

0579

Foliar-applied insecticide treatments on soybeans, 1981 (*Epilachna varivestis*, *Ceratoma trifurcata*).
Hammond, R.B. Dobrin, C. College Park : Entomological Society of America. Insecticide and acaricide tests. 1982. v. 7. p. 180-181. (NAL Call No.: SB950.A1I49).

0580

Foliar spray efficacy trials, 1981 (Soybean, *Plathypena scabra*).
Higgins, R. Pedigo, L.; Buntin, D. College Park : Entomological Society of America. Insecticide and acaricide tests. 1982. v. 7. p. 184. (NAL Call No.: SB950.A1I49).

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0590

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Ill., The Department. Extract: In this report
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various control methods for soybean cyst
nematode. They are: soybean variety, crop
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fertilization. Unfortunately there was no
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sources a set of soybean yield data reflecting
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Schmidt, K.M. Swanson, E.R. Urbana, Ill., The Department. Extract: Three methods were used to evaluate the impact of cancellation of the registration of DBCP as a nematicide on the 1,830,000 acres of soybeans treated with DBCP in 1977. The first two methods specified use patterns for substitutes and also made specific assumptions about the relative efficacy of the nematicides. Economic impact estimates were made without ethylene dibromide (EDB) as an alternative and with EDB as an alternative. Illinois agricultural economics staff paper, series E, agricultural economics - Dept. of Agricultural Economics, University of Illinois. Apr 1981. Apr 1981. (81 E-161). 51 p. 51 ref. (NAL Call No.: 916937(AGE)).

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Rhoades, H.L. n.p., The Society. Proceedings - Soil and Crop Science Society of Florida. 1980. v. 39. p. 90-92. 8 ref. (NAL Call No.: 56.9 S032).

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Zirakparvar, M.E. Norton, D.C.; Nyvall, R. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1981. v. 36. p. 187. (NAL Call No.: 464.9 AM31R).

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Acosta, N. Gainesville, Fla., Organization of Tropical American Nematologists. Nemtropica. Oct 1980. v. 10 (2). p. 75-80. ill. 8 ref. (NAL Call No.: SB998.N4N4).

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Heatherly, L.G. Young, L.D.; Epps, J.M.; Hartwig, E.E. Madison, Wis., Crop Science Society of America. *Crop science*. July/Aug 1982. v. 22 (4). p. 833-835. ill. 30 ref. (NAL Call No.: 64.8 C883).

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Bachireddy, V.R. Payne, R. Jr. Baton Rouge, La. : The University. Research bulletin - Southern University. Sept 1, 1983. v. 5 (1). p. 38-55. Includes references. (NAL Call No.: S539.5.R42).

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0801

Effects of systemic insecticide-nematicides on midseason pest and predator populations in soybean (*Cerotoma trifurcata*, *Empoasca fabae*, *Sericothrips variabilis*, *Heterodera glycines*).

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0802

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0803

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0804

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0805

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0807

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0809

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0810

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0811

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0818

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Zirakparvar, M.E. St. Paul, Minn., American Phytopathological Society. *Phytopathology*. Aug 1980. v. 70 (8). p. 749-753. ill. 15 ref. (NAL Call No.: 464.8 P56).

0819

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0820

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0821

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0822

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0828

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0831

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0834

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0836

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0837

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0838

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0839

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0840

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0842

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0845

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0847

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0848

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0849

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0850

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0851

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0852

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Zirakparvar, M.E. Norton, D.C. St. Paul, Minn., American Phytopathological Society. Plant disease. Oct 1981. v. 65 (10). p. 807-809. 8 ref. (NAL Call No.: 1.9 P69P).

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0853

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0854

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0855

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0856

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Kinloch, R.A. Ames, Iowa, Society of Nematologists. Journal of nematology. Apr 1982. v. 14 (2). p. 162-167. illl. Includes 9 ref. (NAL Call No.: QL391.N4J62).

0857

The relationship of podworm, *Heliothis Zea*, infestations to the reduction of soybean yields in Alabama / Ronald H. Smith.
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0858

Reproduction of differentially selected soybean cyst nematode populations on soybeans (Heterodera glycines).
Young, L.D. Madison, Wis., Crop Science Society of America. Crop science. Mar/Apr 1982. v. 22 (2). p. 385-388. Includes 14 ref. (NAL Call No.: 64.8 C883).

0859

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0860

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0861

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0862

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Hartwig, E.E. Epps, J.M.; Buehring, N. St. Paul, Minn., American Phytopathological Society. Plant disease. Jan 1982. v. 66 (1). p. 18-20. 4 ref. (NAL Call No.: 1.9 P69P).

0863

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0864

Response of soybeans and populations of the lance nematode, *Hoplolaimus columbus*, to fumigant nematicides applied at planting.
Blackmon, C.W. Lewis, S.A. Gainesville, Fla., Organization of Tropical American Nematologists. Nematropica. Apr 1979. v. 9 (1). p. 3-7. 4 ref. (NAL Call No.: SB998.N4N4).

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0865

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0866

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0867

Screening and selecting of improved soybean germplasms for resistance to soybean cyst nematode (SCN) and other soybean diseases in Alabama (Heterodera glycines).

Pacumbaba, R.P. Sapra, V.T. Normal : The School. Annual research report - School of Agriculture. Environmental Science and Home Economics. Alabama Agricultural and Mechanical University. 1983. 1983. (12th). p. 99-102. maps. Includes references. (NAL Call No.: S537.A2A34).

0868

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Lauritis, J.A. JONEB. Rebois, R.V.; Graney, L.S. Ames : Society of Nematologists. Journal of nematology. Oct 1982. v. 14 (4). p. 593-594. Includes references. (NAL Call No.: QL391.N4J62).

0869

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McCann, J. Luedders, V.D.; Dropkin, V.H. Madison, Wis.. Crop Science Society of America. Crop science. Jan/Feb 1982. v. 22 (1). p. 78-80. Includes 1 p. ref. (NAL Call No.: 64.8 C883).

0870

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Bachireddy, V.R. Baton Rouge : The University. Research bulletin - Southern University. July 25, 1982. v. 4 (1). p. 30-42. maps. Includes references. (NAL Call No.: S539.5.R42).

0871

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Phipps, P.M. St. Paul, American Phytopathological Society. Plant disease. Jan 1984. v. 68 (1). p. 76-77. (NAL Call No.: 1.9 P69P).

0873

The soybean cyst nematode.

Grau, C.R. Norgren, R.L. Madison, Wis., The Programs. Publication - Cooperative Extension Programs, University of Wisconsin Extension. July 1980. July 1980. (A3092). 2 p. ill. (NAL Call No.: S544.3.W6W53).

0872

Soybean cyst nematode.

Crowe, Frederick J. 1980. This publication discusses the symptoms, host, spread, and control of soybean cyst nematode. Document available from: Distribution Center, Umberger Hall, Kansas State University, Manhattan, KS 66506. (NAL Call No.: AF 71).

0874

Soybean cyst nematode.

Nyvall, Robert F. Norton, Don C. Document available from: Iowa State University, Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011 1980. This publication discusses soybean cyst nematode, including it's symptoms, life cycle, host plants, and control. 3 p. : ill. (NAL Call No.: Document available from source.).(NAL Call No.: Pm-879).

0875

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McGinnity, P.J. Kapusta, G. Myers, O. Jr. Madison, Wis., American Society of Agronomy. Agronomy journal. Sept/Oct 1980. v. 72 (5). p. 785-789. 23 ref. (NAL Call No.: 4 AM34P).

0876

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MacDonald, D.H. AR-NC. Noel, G.R.; Lueschen, W.E. St. Paul, Minn., American Phytopathological Society. Plant disease. Mar 1980. v. 64 (3). p. 319-321. ill. 6 ref. (NAL Call No.: 1.9 P69P).

0877

Soybean cyst nematode infestation in Arkansas.

Riggs, R.D. Von Steen, D. Fayetteville, Ark., The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. July/Aug 1981. v. 30 (4). p. 6. map. (NAL Call No.: 100 AR42F).

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0916

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Chemical control of soybean disease, 1980 (Soybean (*Glycine max* 'Davis', 'Dare', 'Dowling', 'Tracy', and 'Bragg'), anthracnose; *Colletotrichum dematium* var. *truncata*, pod and stem blight; *Diaporthe phaseolorum* var. *sojae*, *Cercospora* blight; *Cercospora kikuchii*).
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0929

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Horn, N.L. Fontenot, M.F. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1980. v. 35. p. 111. (NAL Call No.: 464.9 AM31R).

0933

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0934

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0935

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0936

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0937

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0938

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0939

Control of soybean damping-off with Terrazan in presence and absence of Nematrol, 1975 (Soybean (Glycine max), damping off; Rhizoctonia solani, Pythium sp., fusarium sp., nematodes; Meloidogyne spp., Pratylenchus spp.).

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0940

Control of soybean damping-off with three fungicides in presence and absence of Nematriol at Sinaloa, 1975 (Soybean (*Glycine max*), damping off; *Rhizoctonia solani*, *Pythium* sp., *Fusarium* sp., nematodes; *Meloidogyne* spp., *Pratylenchus* spp.).
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0941

Control of soybean diseases by fungicide sprays, 1979 (Soybean (*Glycine max* 'Davis', 'Bragg', 'Hardee' and 'Bossier'), foliar, stem and pod diseases).
Almeida, A.M.R. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1980. v. 35. p. 107. (NAL Call No.: 464.9 AM31R).

0942

Cooperation spurs resistant soybeans (*Phialophora gregata*, brown stem rot, Varieties, Iowa).
Pierce, R. SEA-AR-NC. Washington, D.C., The Administration. Extension review - United States Department of Agriculture, Science and Education Administration. Summer 1980. v. 51 (3). p. 24-25. ill. (NAL Call No.: 1 EX892EX).

0943

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0944

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Walker, H.L. White, J.C. Beltsville, Md., Science and Education Administration, U.S. Dept. of Agriculture. *Plant disease reporter*. Aug 1979. v. 63 (8). p. 642-644. ill. 13 ref. (NAL Call No.: 1.9 P69P).

102

0945

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Nylvall, Robert F. Document available from: Iowa State University, Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011 1980. This publication discusses damping off in soybeans and includes the symptoms, cause, and control. 1 sheet : ill. (NAL Call No.: Document available from source.).(NAL Call No.: Pm-936).

0946

Development of a radioimmunoassay for the soybean phytoalexin glyceollin I (*Glycine max*, *Phytophthora megasperma*).
Moesta, P. PLPHA. Hahn, M.G.; Grisebach, H. Rockville : American Society of Plant Physiologists. *Plant physiology*. Oct 1983. v. 73 (2). p. 233-237. ill. Includes references. (NAL Call No.: 450 P692).

0947

Dictyledonous weeds as a source of *Fusarium oxysporum* pathogenic on soybean (Symptomless hosts, pathogenicity study of 21 weed species, Delaware).
Helbig, J.B. Carroll, R.B. St. Paul, Minn. : American Phytopathological Society. *Plant disease*. Aug 1984. v. 68 (8). p. 694-696. Includes 16 references. (NAL Call No.: 1.9 P69P).

0948

Disease outlook: wet weather spells trouble (*Heterodera glycines*, soybeans, fungus diseases).
Walsten, M. St. Louis, American Soybean Association. *Soybean digest*. Feb 1979. v. 39 (4). p. 42S-43S. ill. (NAL Call No.: 60.38 S09).

0949

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Lim, S.M. St. Paul, American Phytopathological Society. *Phytopathology*. Dec 1978. v. 68 (12). p. 1774-1778. ill. 11 ref. (NAL Call No.: 464.8 P56).

0950

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0951

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 Marking, S. St. Louis, Mo., American Soybean Association. Soybean digest. Apr 1981. v. 41 (6). p. 22-23. ill. (NAL Call No.: 60.38 S09).

0952

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0953

Early events of pathogenesis of zoospores of Phytophthora megasperma f. sp. Glycinea on resistant and susceptible soybean roots (Scanning electron microscopy).
 Ristaino, J.B. Rissler, J.F. College Park, Md. : Univ. of Maryland, Electron Microsc Cent Facil, Dept. of Mechanical Engineering. Newsletter - Electron Microscope Central Facility. Apr 1983. Apr 1983. (11). p. 15-17. ill. Includes references. (NAL Call No.: QH212.E4E4).

0954

Ecology of a sterile white pathogenic basidiomycete in corn, peanut, soybean, and snap bean field microplots (Rhizoctonia solani, Zea mays, Arachis hypogaea, Glycine max, Phaseolus vulgaris, soilborne fungi, Georgia).
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0955

Effect of Benlate on disease of soybeans grown in potassium-deficient and fertile soils, 1979 (Soybean (Glycine 'Tracy', 'Centennial'), Cercospora leaf blight; Cercospora kikuchii, anthracnose; Colletotrichum dematium var. truncata, pod and stem blight; Diaporthe phaseolorum var. sojae, seedborne fungi).
 Roy, K.W. Buehring, N.W. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1981. v. 36. p. 99. (NAL Call No.: 464.9 AM31R).

0956

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0962

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0964

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0972

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0975

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0981

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0983

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0984

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0996

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0997

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0998

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1000

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1001

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1002

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1003

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1004

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1005

Effects of row width and plant growth habit on *Septoria (glycines)* brown spot development and soybean yield.

Pataky, J.K. Lim, S.M. St. Paul, Minn., American Phytopathological Society. *Phytopathology*. Oct 1981. v. 71 (10). p. 1051-1056. 22 ref. (NAL Call No.: 464.8 P56).

1006

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1007

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Peterson, D.J. Edwards, H.H. St. Paul, American Phytopathological Society. *Plant disease*. Nov 1982. v. 66 (11). p. 995-998. ill. 14 ref. (NAL Call No.: 1.9 P69P).

1008

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1009

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1010

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1011

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1012

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1013

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1014

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1015

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1016

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1017

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1018

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Schlub, R.L. Lockwood, J.L. St. Paul, Minn., American Phytopathological Society. Phytopathology. Feb 1981. v. 71 (2). p. 134-138. ill. 23 ref. (NAL Call No.: 464.8 P56).

1019

Evaluation of Benlate and Mertect for control of foliar, stem and seed diseases of soybean, 1979 (Soybean (Glycine max 'Forest')), Cercospora leaf blight; Cercospora kikuchii, frogeye leaf spot; Cercospora sojina, anthracnose; Colletotrichum dematium var. truncata, pod and stem blight; Diaporthe phaseolorum var. sojae, seedborne fungi).
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1020

Evaluation of foliar applied fungicides on soybeans, 1982 (Disease control, Glycine max).
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1021

Evaluation of foliar fungicides for disease control and yield of soybeans, 1982 (Diaporthe phaseolorum var. sojae, Colletotrichum dematium var. truncata, Glycine max).
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1022

Evaluation of foliar fungicides on soybeans, 1981 (Soybean (Glycine max 'Williams 79'), brown spot; Septoria glycines, downy mildew; Peronospora manshurica, pod and stem blight; Diaporthe phaseolorum var. sojae, anthracnose; Colletotrichum dematium var. truncata, purple seed stain; Cercospora kikuchii).
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1023

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1024

Evaluation of fungicides for control of foliar and stem diseases of soybean, 1979 (Soybean (Glycine max 'Centennial')), anthracnose; Colletotrichum dematium var. truncata, pod and stem blight; Diaporthe phaseolorum var sojae).
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1025

Evaluation of fungicides for control of foliar and stem diseases of soybean, 1979 (Soybean (Glycine max 'Forest')), Cercospora leaf blight; Cercospora kikuchii, anthracnose; Colletotrichum dematium var. truncata, pod and stem blight; Diaporthe phaseolorum var. sojae).
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1026

Evaluation of fungicides for control of foliar and stem diseases of soybean, 1979 (Soybean (Glycine max 'Forrest')), Cercospora leaf blight; Cercospora kikuchii, anthracnose; Colletotrichum dematium var. truncata, pod and stem blight; Diaporthe phaseolorum var. sojae).
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1027

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1164

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Ridomil fungicide as a seed and soil treatment vs genetic resistance for control of Phytophthora rot of soybeans, 1980 (Soybean (*Glycine max* 'Marshall', 'Corsoy', 'Harcor', 'Vickery'), pre- and postemergence damping-off, root rot *Phytophthora megasperma*, *Phytophthora megasperma* var. *sojae*).

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Phytopathological Society. Plant disease. Mar
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Harmann, G.E. Nedrow, B.L.; Clark, B.E.; Mattick, L.R. Madison, Wis., Crop Science Society of America. *Crop science*. July/Aug 1982. v. 22 (4). p. 712-716. ill. 19 ref. (NAL Call No.: 64.8 C883).

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Bacterial tan spot, a new foliar disease of soybeans (*Corynebacterium flaccumfaciens*). Dunleavy, J.M. CRPSA. Madison : Crop Science Society of America. *Crop science*. May/June 1983. v. 23 (3). p. 473-476. ill., maps. Includes references. (NAL Call No.: 64.8 C883).

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1237

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1238

Host-pathogen interactions. XVIII. Isolation and biological activity of glycinol, a pterocarpan phytoalexin synthesized by soybeans.

Weinstein, L.I. Hahn, M.G.; Albersheim, P. Rockville, Md., American Society of Plant Physiologists. *Plant physiology*. Aug 1981. v. 68 (2). p. 358-363. ill. 24 ref. (NAL Call No.: 450 P692).

1239

Host-pathogen interactions. XXII. A galacturonic acid oligosaccharide from plant cell walls elicits phytoalexins (*Glycine max*, soybeans, *Colletotrichum lindemuthianum*, *Erwinia carotovora*).

Nothnagel, E.A. PLPFA. McNeil, M.; Albersheim, P.; Dell, A. Rockville : American Society of Plant Physiologists. *Plant physiology*. Apr 1983. v. 71 (4). p. 916-926. Includes references. (NAL Call No.: 450 P692).

1240

Host-pathogen interactions. XXV. Endopolagalacturonic acid lyase from *Erwinia carotovora* elicits phytoalexin accumulation by releasing plant cell wall fragments (*Glycine max*, soybeans).

Davis, K.R. Lyon, G.D.; Darvill, A.G.; Albersheim, P. Rockville, Md. : American Society of Plant Physiologists. *Plant physiology*. Jan 1984. v. 74 (1). p. 52-60. ill. Includes references. (NAL Call No.: 450 P692).

1241

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1242

Inhibition of chlorophyll synthesis by *Pseudomonas glycinea* (Bacterial blight of soybean).

Gulya, T. Jr. Dunleavy, J.M. Madison, Crop Science Society of America. *Crop science*. Mar/Apr 1979. v. 19 (2). p. 261-264. ill. 22 ref. (NAL Call No.: 64.8 C883).

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1243

Leaf infection and yield losses caused by brown spot and bacterial blight diseases of soybean (*Septoria glycines* and *Pseudomonas glycinea*). Williams, D.J. APHIS. Nyvall, R.F. St. Paul, Minn., American Phytopathological Society. *Phytopathology*. Sept 1980. v. 70 (9). p. 900-902. 15 ref. (NAL Call No.: 464.8 P56).

1244

Monitoring soybeans in Illinois for foliar diseases (*Septoria glycines*, *Peronospora manshurica*, *Pseudomonas glycinea*). Pataky, J.K. Lim, S.M. St. Paul, American Phytopathological Society. *Phytopathology*. May 1979. v. 69 (5). p. 541. (NAL Call No.: 464.8 P56).

1245

A new bacterial agglutinin (*Xanthomonas phaseoli* var. *sojensis*) from soybean. I. Isolation, partial purification, and characterization. Fett, W.F. Sequeira, L. Rockville, Md., American Society of Plant Physiologists. *Plant physiology*. Nov 1980. v. 66 (5). p. 847-852. ill. 29 ref. (NAL Call No.: 450 P692).

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1248

Occurrence of a leafhopper-transmitted disease of soybeans in Louisiana (*Scaphytopius acutus*, possible mycoplasmal disease, soybean bud proliferation, insect vectors). Derrick, K.S. Newsom, L.D. St. Paul, Minn. : American Phytopathological Society. *Plant disease*. Apr 1984. v. 68 (4). p. 343-344. ill. Includes references. (NAL Call No.: 1.9 P69P).

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Occurrence of *Pseudomonas syringae* on bean and soybean in Kenya. Kaiser, W.J. Ramos, A.H. St. Paul, Minn., American Phytopathological Society. *Plant disease*. June 1980. v. 64 (6). p. 593-595. ill. 20 ref. (NAL Call No.: 1.9 P69P).

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Role of bacterial immobilization in race-specific resistance of soybean to *Pseudomonas syringae* pv. *glycinea* (Bacterial blight of *Glycine max*). Fett, W.F. Jones, S.B. St. Paul, Minn., American Phytopathological Society. *Phytopathology*. May 1982. v. 72 (5). p. 488-492. ill. Includes 23 ref. (NAL Call No.: 464.8 P56).

1251

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Quinones, Sebastian Sarceda, 1922. 1968. Thesis (Ph.D.)--Iowa State University, 1968. Photocopy. Ann Arbor, Mich. : University Microfilms, 1970. iv, 74 leaves : ill. ; 21 cm. Bibliography: leaves 72-74. (NAL Call No.: DISS 69-4,274).

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1326

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1327

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(MISCELLANEOUS PLANT DISORDERS)

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PROTECTION OF PLANT PRODUCTS - GENERAL AND MISC.

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Bailey, Z.E. Ames, Iowa, The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1982. v. 9. p. 109-111. ill. (NAL Call No.: aSB205.S7S6).

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Van Duyn, J.W. SCSBA. McLeod, P.J. Mississippi State : Mississippi Agricultural and Forestry Experiment Station. Southern cooperative series bulletin. June 1983. Regional Research Project S-74. June 1983. (285). p. 56-62. Includes references. (NAL Call No.: 100 G29SO).

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Phytotoxic interaction between phenylurea herbicides in a cotton (*Gossypium hirsutum*)-soybean (*Glycine max*) sequence.

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1844

Phytotoxicity of soybean caused by the interaction of insecticide-nematicides and metribuzin.
Hammond, R.B. College Park, Md. : Entomological Society of America. Journal of economic entomology. Feb 1983. v. 76 (1). p. 17-19. Includes references. (NAL Call No.: 421 J822).

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Triantaphyllou, A.C. Riggs, R.D. Ames, Iowa, Society of Nematologists. Journal of nematology. Oct 1979. v. 11 (4). p. 371-376. ill. 11 ref. (NAL Call No.: QL391.N4J62).

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Morrison, D.E. Bardley, J.R. Jr. Baltimore, Entomological Society of America. Journal of economic entomology. Feb 15, 1979. v. 72 (1). p. 97-100. ill. 11 ref. (NAL Call No.: 421 J822).

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1851

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Soybean herbicides: recommendations, use surveys and treatment costs.

Park, J.K. Nafziger, E.D.; Swanson, E.R. Urbana, Ill., The Department. Illinois agricultural economics staff paper, series E agricultural economics - Dept. of Agricultural Economics, University of Illinois. July 1981. Predominantly tables. July 1981. (81 E-181). 93 p. 43 ref. (NAL Call No.: 916937(AGE)).

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Soybean insect management guidelines number 1 -- corn earworms / John C. Smith and Robert M. McPherson.
Smith, John C. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1984. Pesticide Applicator Training collection ~Caption title ~"February 1984.". 2 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-041 1984).

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Soybean insect management guidelines number 2 - Mexican bean beetles / Robert M. McPherson and John C. Smith.
McPherson, Robert M. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1984. Pesticide Applicator Training collection ~Caption title ~"February 1984.". 2 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-042 1984).

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Soybean insect management guidelines number 3 - stink bugs / Robert M. McPherson and John C. Smith.
McPherson, Robert M. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1983. Pesticide Applicator Training collection ~Caption title ~"August 1983.". 2 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-043).

1859

Soybean insect management guidelines, number 4 -- bean leaf beetles / Robert M. McPherson.
McPherson, Robert M. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1984. Pesticide Applicator Training collection ~Caption title ~"February 1984.". 2 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-044).

1860

Soybean insect management guidelines number 5 - green cloverworms / Robert M. McPherson.
McPherson, Robert M. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1983. Pesticide Applicator Training collection ~Caption title ~"May 1983.". 2 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-045).

1861

Soybean insect management guidelines, number 6 -- Spider mites / John C. Smith and Robert M. McPherson.
Smith, John C. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1984. Pesticide Applicator Training collection ~Caption title ~"February 1984.". 2 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-046).

1862

Soybean insect management guidelines number 7 - natural enemies / Holly J. Ferguson and Robert M. McPherson.
Ferguson, Holly J. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1983. Pesticide Applicator Training collection ~Caption title ~"May 1983.". 2 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-047).

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Soybean insect management guidelines, number 8 -- Trap crops / Robert M. McPherson.
McPherson, Robert M. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1983. Pesticide Applicator Training collection ~Caption title ~"July 1983.". 3 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-048).

1864

Soybean insect pest management for Virginia / Robert M. McPherson and John C. Smith.
McPherson, Robert M. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1984. Pesticide Applicator Training collection ~"March 1984.". 10 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-040 1984).

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1865

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Park, J.K. Nafziger, E.D.; Swanson, E.R. Urbana, Ill., The Department. Illinois agricultural economics staff paper, series E agricultural economics - Dept. of Agricultural Economics, University of Illinois. July 1981. July 1981. (81 E-182). 48 p. 51 ref. (NAL Call No.: 916937(AGE)).

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Soybean nematicides/fungicides: recommendations, use surveys and treatment costs.

Park, J.K. Nafziger, E.D.; Swanson, E.R. Urbana, Ill., The Department. Illinois agricultural economics staff paper, series E agricultural economics - Dept. of Agricultural Economics, University of Illinois. July 1981. July 1981. (81 E-183). 35 p. 53 ref. (NAL Call No.: 916937(AGE)).

1867

Synthetic polymers for controlled-release of herbicides (Metribuzin, used for weed control in soybeans).

McCormick, C.L. Lichatowich, D.K. n.p. Journal Mississippi Academy of Sciences. 1978. v. 23. p. 6-10. ill. 14 ref. (NAL Call No.: 500 M697).

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Tolerance of soybean genotypes to metribuzin (Herbicides, injury).

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Tolerance of three soybean (*Glycine max*) cultivars to metribuzin (Herbicides, injury).

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1870

Translocation of different 2,4-D, bentazon, diclofop, or diclofop-methyl combinations in oat (*Avena sativa*) and soybean (*Glycine max*) (Herbicides, antagonism).

Hall, C. Edgington, L.V.; Switzer, C.M. Champaign : Weed Science Society of America. Weed science. Nov 1982. v. 30 (6). p. 676-682. 23 ref. (NAL Call No.: 79.8 W41).

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Uptake and release of herbicides by soybean roots in culture solutions.

Moody, Keith. 1940. Ann Arbor, Mich. University Microfilms 1971. Thesis--University of Wisconsin, 1969. (iv), 136 leaves. Bibliography: leaves (119)-128. (NAL Call No.: DISS 70-3,635).

1872

Volatilization of microencapsulated and conventionally applied chlorpropham (herbicide) in the field (Soil residues, soybeans).

Turner, B.C. Glotfelty, D.E. Madison. Agronomy journal American Society of Agronomy. Nov/Dec 1978. v. 70 (6). p. 933-937. ill. 16 ref. (NAL Call No.: 4 AM34P).

1873

1980 Kansas field crop insect control recommendations.

Brooks, Leroy. Gates, Dell E. 1980. First this publication discusses some safety tips for using insecticides, then it discusses the control of insects attacking alfalfa, corn, sorghum, wheat, and soybeans. It also includes a list of the Poison Control Information Centers in Kansas. Document available from: Distribution Center, Umberger Hall, Kansas State University, Manhattan, KS 66506. 27 p. (NAL Call No.: C 431).

1874

1980 pesticide use on soybeans in the major producing states.

Hanthorn, M. Osteen, C.; McDowell, R.; Roberson, L. Washington, D.C., The Service. Extract: Farmers reported that 124.6 million pounds (a.i.) of pesticides were applied to soybeans in the major producing States during 1980. This consisted of 114.4 million pounds (a.i.) of herbicides, 8 million pounds (a.i.) of insecticides, 1.5 million pounds (a.i.) of nematicides, and 600,000 pounds (a.i.) of fungicides. Pesticide acre-treatments totaled 106.6 million and consisted of 95.5 million with herbicides, 9.3 million with insecticides, 600,000 with nematicides, and 1.2 million with fungicides. The primary herbicides were alachlor, bentazon, and trifluralin. The major insecticides were carbaryl, methomyl, and methyl parathion. Aldicarb and ethylene dibromide were the primary nematicides and benomyl was the major fungicide. ERS staff report - U.S. Dept. of Agriculture, Economic Research Service. Jan 1982. Available from NTIS. Jan 1982. (AGES820106). 32 p. 4 ref. (NAL Call No.: 916762(AGE)).

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1875

1980 pesticide use on soybeans in the Mississippi Valley.

Hanthorn, M. Osteen, C.; McDowell, R.; Roberson, L. Washington, D.C., The Service. Extract: Farmers reported that 28.5 million pounds (a.i.) of pesticides were applied to soybeans in the Mississippi Valley during 1980. This consisted of 26 million pounds (a.i.) of herbicides, 2.3 million pounds (a.i.) of insecticides, 51,000 pounds (a.i.) of nematicides, and 201,000 pounds (a.i.) of fungicides. Pesticide acre-treatments totaled 31.9 million and consisted of 28.4 million with herbicides, 2.8 million with insecticides, 68,000 with nematicides, and 721,000 with fungicides. The primary herbicides were alachlor, bentazon, metribuzin, and trifluralin. The major insecticides were carbaryl, methomyl, and methyl parathion. Benomyl was the primary fungicide. ERS staff report - United States Dept. of Agriculture, Economic Research Service. Jan 1982. Available from NTIS. Jan 1982. (AGES820127). 32 p. 4 ref. (NAL Call No.: 916762(AGE)).

1876

1980 pesticide use on soybeans in the North Central States.

Hanthorn, M. Osteen, C.; McDowell, R.; Roberson, L. Washington, D.C., The Service. Extract: Farmers reported that 77.8 million pounds (a.i.) of pesticides were applied to soybeans in the North Central States during 1980. This consisted of 77.1 million pounds (a.i.) of herbicides and 700,000 pounds (a.i.) of insecticides. Pesticide acre-treatments totaled 58.1 million and consisted of 44.8 million with single material herbicides, 12.6 million with herbicide mixes, and 700,000 with insecticides. The primary herbicides were alachlor, bentazon, metribuzin, and trifluralin. The major insecticide was carbaryl. ERS staff report - United States Dept. of Agriculture, Economic Research Service. Feb 1982. Available from NTIS. Feb 1982. (AGES820209). 32 p. 4 ref. (NAL Call No.: 916762(AGE)).

1877

1980 pesticide use on soybeans in the Southeast.

Hanthorn, M. Osteen, C.; McDowell, R.; Roberson, L. Washington, D.C., The Service. Extract: Farmers reported that 18.1 million pounds active ingredient (a.i.) of pesticides were applied to soybeans in the Southeast during 1980. This consisted of 11.3 million pounds (a.i.) of herbicides, 5.1 million pounds (a.i.) of insecticides, 1.4 million pounds (a.i.) of nematicides, and 234,000 pounds (a.i.) of fungicides. Pesticide acre-treatments totaled 16.4 million and consisted of 9.7 million with herbicides, 5.8 million with insecticides, 555,000 with nematicides, and 384,000 with fungicides. The primary herbicides were alachlor, bentazon, metribuzin, and

trifluralin. The major insecticides were carbaryl and methomyl. Aldicarb and ethylene dibromide were the primary nematicides and benomyl was the major fungicide. ERS staff report - U.S. Dept. of Agriculture, Economic Research Service. Feb 1982. Available from NTIS. Feb 1982. (AGES820203). 28 p. 4 ref. (NAL Call No.: 916762(AGE)).

1878

1981 Kansas field crops insect control recommendations.

Brooks, Leroy. Gates, Dell E. 1981. First this publication discusses some safety tips for using insecticides, then it discusses the control of insects attacking alfalfa, corn, sorghum, wheat, and soybeans. It also includes a list of the Poison Control Information Centers in Kansas. Document available from: Distribution Center, Umberger Hall, Kansas State University, Manhattan, KS 66506. 28 p. (NAL Call No.: C 431).

1879

1982 weed control guide for field crops.

Barrett, Michael. Meggitt, William F. 1981. This publication has information on how to control weeds in corn, soybeans, small grains, field beans, sunflowers, potatoes, mint, sugarbeets, forages, & sorghum crops. Document available from: Michigan State University, Bulletin Office, P.O. Box 231, East Lansing, MI 48824. 35 p. (NAL Call No.: Not available at NAL.). (NAL Call No.: Ext. Bulletin E-434).

1880

2,4-D (2,4-dichlorophenoxy acetic acid) metabolism in soybean cell suspensions.

Davis, D.G. Lamoureux, G.L. Grand Forks, N.D., The Academy. Proceedings of the North Dakota Academy of Science. Apr 1981. v. 35. p. 36. (NAL Call No.: 500 N813).

SOIL SCIENCE

1881

Effects of (the root-knot nematode) Meloidogyne incognita on nitrogen fixation in soybean.

Baldwin, J.G. Barker, K.R. Ames, Iowa, Society of Nematologists. Journal of nematology. Apr 1979. v. 11 (2). p. 156-161. ill. 18 ref. (NAL Call No.: QL391.N4J62).

1882

Manganese concentration in soybean leaves as affected by cultivars and soil properties (Includes toxicity).

Jones, W.F. Nelson, L.E. New York, Dekker. Communications in soil science and plant analysis. 1979. v. 10 (5). p. 821-830. ill. 10 ref. (NAL Call No.: S590.C63).

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1891

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Document available from: Iowa State University, Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011 1981. This publication is a progress report in the following areas: soil moisture, corn and soybean herbicides, delayed planting of soybeans, plant populations for sunflowers, rock phosphate and superphosphate comparison, rates of N and P fertilizers, brown stem rot, tillage observations, seedbed preparations for corn and soybean, and crop variety research. 25 p. : ill. (NAL Call No.: Document available from source.).(NAL Call No.: DRC 80-29).

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1899

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1903

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1906

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1912

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Black, M.C. Beute, M.K. St. Paul, Minn. : American Phytopathological Society. Plant disease. May 1984. v. 68 (5). p. 401-405. ill. Includes references. (NAL Call No.: 1.9 P69P).

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1916

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1917

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Mangold, G. St. Louis, Mo., American Soybean Association. Soybean digest. Feb 1981. v. 41 (4). p. 10-11. ill. (NAL Call No.: 60.38 S09).

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Buntley, G.J. Atlanta, Potash & Phosphate Institute. Better crops with plant food. Summer 1982. v. 66. p. 3-5. (NAL Call No.: 6 B46).

1921

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1923

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Cooper, R.L. Jeffers, D.L. Madison : American Society of Agronomy. Agronomy journal. Mar/Apr 1984. v. 76 (2). p. 257-259. Includes references. (NAL Call No.: 4 AM34P).

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1928

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Wis., American Society of Agronomy. Agronomy journal. Mar/Apr 1982. v. 74 (2). p. 266-269.
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With no-tillage, hit weeds early! (Early preplant application of herbicides, maize, soybeans, Iowa).
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1931

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Hamm, P.B. Hansen, E.M. St. Paul, Minn., American Phytopathological Society. *Phytopathology*. Jan 1981. v. 71 (1). p. 65-68. 20 ref. (NAL Call No.: 464.8 P56).

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McPherson, R.M. GEMSA. Ravlin, F.W. Athens : The Society. *Journal of the Georgia Entomological Society*. Jan 1983. v. 18 (1). p. 58-60. Includes references. (NAL Call No.: QL461.G4).

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1934

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Boiteau, G. Bradley, J.R. Jr. College Park, Md.
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Development of a sampling program for estimation of pupal densities of green cloverworm (Lepidoptera: Noctuidae) in soybeans and evaluation of alternative sampling procedures (Plathypena scabra).
Bechinski, E.J. EVETB. Pedigo, L.P. College Park : Entomological Society of America. Environmental entomology. Feb 1983. v. 12 (1). p. 96-100. Includes references. (NAL Call No.: QL461.E532).

1938

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Hammond, R.B. Pedigo, L.P. Lawrence : The Society. Journal of the Kansas Entomological Society. Oct 1982. v. 55 (4). p. 754-758. 4 ref. (NAL Call No.: 420 K13).

1939

Dynamics of insect adaptations to soybean: Impact of integrated pest management.
Kogan, M. College Park, Md., Entomological Society of America. Environmental entomology. June 1981. Paper presented at the Sixth International Congress of Plant Protection, Washington, D.C., August 1979. v. 10 (3). p. 363-371. ill. Bibliography p. 370-371. (NAL Call No.: QL461.E532).

1940

Dynamics of natural enemy populations (Natural control agents of pests of soybeans, particularly Nabis spp., Geocoris spp., Orius insidiosus, spiders, eastern United States).
Yeargan, K.V. SCSBA. Todd, J.W.; Mueller, A.J.; Yearian, W.C. Mississippi State : Mississippi Agricultural and Forestry Experiment Station. Southern cooperative series bulletin. June 1983. Regional Research Project S-74. June 1983. (285). p. 32-38. Includes references. (NAL Call No.: 100 G2950).

1941

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Peterson, B.L. Dively, G.P. Beltsville, Md., The Society. Proceedings - annual meeting of the Northeastern Weed Science Society. Northeastern Weed Science Society. p. 78.p. 78. (NAL Call No.: 79.9 N814).

1942

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Pedigo, L.P. EVETB. Buntin, G.D.; Bechinski, E.J. College Park : Entomological Society of America. Environmental entomology. Dec 1982. v. 11 (6). p. 1223-1228. ill. Includes references. (NAL Call No.: QL461.E532).

1943

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Passoa, S. Lawrence, Kan. : The Society. Journal of the Lepidopterists' Society. 1983. v. 37 (3). p. 217-223. ill. Includes references. (NAL Call No.: 421 L554).

1944

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Allen, William A. (William Albert), 1939. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1982. Pesticide Applicator Training collection ~"July 1982.". 12 p. : ill. ; 28 cm. - . (NAL Call No.: 5544.3.V8V52 no.444-016).

1945

Microspatial distribution of pupal green cloverworms, Plathypena scabra (F.) (Lepidoptera: Noctuidae), in Iowa soybean fields.
Bechinski, E.J. EVETB. Pedigo, P.L. College Park : Entomological Society of America. Environmental entomology. Feb 1983. v. 12 (1). p. 273-276. ill. Includes references. (NAL Call No.: QL461.E532).

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1946

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Marston, N.L. Hostetter, D.L.; Pinnell, R.E.; Dickerson, W.A.; Smith, D.B. College Park : The Society. Annals of the Entomological Society of America. Jan 1984. v. 77 (1). p. 21-28. Includes references. (NAL Call No.: 420 EN82).

1947

Partial life tables of the green cloverworm (Lepidoptera: Noctuidae) in soybean and a hypothesis of population dynamics in Iowa (*Plathypena scabra*).
Pedigo, L.P. EVETB. Bechinski, E.J.; Higgins, R.A. College Park : Entomological Society of America. Environmental entomology. Feb 1983. v. 12 (1). p. 186-195. Includes references. (NAL Call No.: QL461.E532).

1948

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Thorpe, K.W. College Park, Md. : Entomological Society of America. Environmental entomology. Feb 1984. v. 13 (1). p. 127-132. Includes references. (NAL Call No.: QL461.E532).

1949

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Smith, John C. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1984. Pesticide Applicator Training collection ~Caption title ~"February 1984.". 2 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-041 1984).

1950

Soybean insect management guidelines number 2 - Mexican bean beetles / Robert M. McPherson and John C. Smith.
McPherson, Robert M. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1984. Pesticide Applicator Training collection ~Caption title ~"February 1984.". 2 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-042 1984).

1951

Soybean insect management guidelines number 3 - stink bugs / Robert M. McPherson and John C. Smith.
McPherson, Robert M. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1983. Pesticide Applicator Training collection ~Caption title ~"August 1983.". 2 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-043).

1952

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McPherson, Robert M. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1984. Pesticide Applicator Training collection ~Caption title ~"February 1984.". 2 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-044).

1953

Soybean insect management guidelines number 5 - green cloverworms / Robert M. McPherson.
McPherson, Robert M. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1983. Pesticide Applicator Training collection ~Caption title ~"May 1983.". 2 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-045).

1954

Soybean insect management guidelines, number 6 -- Spider mites / John C. Smith and Robert M. McPherson.
Smith, John C. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1984. Pesticide Applicator Training collection ~Caption title ~"February 1984.". 2 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-046).

1955

Soybean insect management guidelines number 7 - natural enemies / Holly J. Ferguson and Robert M. McPherson.
Ferguson, Holly J. Blacksburg Extension Division, Virginia Polytechnic Institute and State University 1983. Pesticide Applicator Training collection ~Caption title ~"May 1983.". 2 p. : ill. ; 28 cm. -. (NAL Call No.: S544.3.V8V52 no.444-047).

1956

Soybean insect management guidelines, number 8
-- Trap crops / Robert M. McPherson.
McPherson, Robert M. Blacksburg Extension
Division, Virginia Polytechnic Institute and
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1957

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Robert M. McPherson and John C. Smith.
McPherson, Robert M. Blacksburg Extension
Division, Virginia Polytechnic Institute and
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1958

Soybean insects : identification and management
in Illinois / Marcos Kogan, Donald E. Kuhlman.
Kogan, Marcos. Kuhlman, Donald E. Urbana, Ill.
Agricultural Experiment Station, College of
Agriculture, University of Illinois at
Urbana-Champaign 1982. "February, 1982". 58 p.
: ill. (some col.) ; 28 cm. -. (NAL Call No.:
100 IL6S (1) no.773).

ANIMAL REPRODUCTION

1959

Effects of micrometeorological conditions on survival and fecundity of the Mexican bean beetle (*Epilachna varivestis*) in soybean fields.

Sprenkel, R.K. Rabb, R.L. College Park, Md., Entomological Society of America. Environmental entomology. Apr 1981. v. 10 (2). p. 219-221. 8 ref. (NAL Call No.: QL461.E532).

ANIMAL ECOLOGY

1960

Development of a sampling program for estimation of pupal densities of green cloverworm (Lepidoptera: Noctuidae) in soybeans and evaluation of alternative sampling procedures (*Plathypena scabra*).
Bechinski, E.J. EVETB. Pedigo, L.P. College Park : Entomological Society of America. Environmental entomology. Feb 1983. v. 12 (1). p. 96-100. Includes references. (NAL Call No.: QL461.E532).

1961

Dynamics of insect adaptations to soybean: Impact of integrated pest management.
Kogan, M. College Park, Md., Entomological Society of America. Environmental entomology. June 1981. Paper presented at the Sixth International Congress of Plant Protection, Washington, D.C., August 1979. v. 10 (3). p. 363-371. ill. Bibliography p. 370-371. (NAL Call No.: QL461.E532).

1962

Dynamics of natural enemy populations (Natural control agents of pests of soybeans, particularly *Nabis* spp., *Geocoris* spp., *Orius insidiosus*, spiders, eastern United States).
Yeargan, K.V. SCSBA. Todd, J.W.; Mueller, A.J.; Yearian, W.C. Mississippi State : Mississippi Agricultural and Forestry Experiment Station. Southern cooperative series bulletin. June 1983. Regional Research Project S-74. June 1983. (285). p. 32-38. Includes references. (NAL Call No.: 100 G2950).

1963

Ecological impact of parathion in soybeans. I. Vegetative fauna. (Predatory arthropods, detrimental effects, insecticides, *Plathypena scabra*, natural control, Missouri field experiments).
Marston, N.L. XATBA. Hennessey, M.K. Washington : The Department. Technical bulletin - United States Dept. of Agriculture. Dec 1982. Dec 1982. (1665). p. 1-7. ill. Includes references. (NAL Call No.: 1 AG84TE).

1964

Ecological impact of parathion in soybeans (Insecticides, adverse effects, natural control, predatory arthropods).
Washington : The Department. Technical bulletin - United States Dept. of Agriculture. Dec 1982. Dec 1982. (1665). 23 p. ill. Includes references. (NAL Call No.: 1 AG84TE).

1965

Effects of cultural practices on natural enemies (Beneficial arthropod dynamics in soybean, role of plant phenology, pest control implications).
Mayse, M. SCSBA. Pitre, H.N.; Whitcomb, W. Mississippi State : Mississippi Agricultural and Forestry Experiment Station. Southern cooperative series bulletin. June 1983. Regional Research Project S-74. June 1983. (285). p. 49-55. Includes references. (NAL Call No.: 100 G2950).

1966

Effects of micrometeorological conditions on survival and fecundity of the Mexican bean beetle (*Epilachna varivestis*) in soybean fields.
Sprenkel, R.K. Rabb, R.L. College Park, Md., Entomological Society of America. Environmental entomology. Apr 1981. v. 10 (2). p. 219-221. 8 ref. (NAL Call No.: QL461.E532).

1967

Establishment of infestation and behavior of *Heliothis zea* on soybeans in the greenhouse. Pitre, H.N. Hillhouse, T.L. Athens, Ga., The Society. Journal of the Georgia Entomological Society. Jan 1981. v. 16 (1). p. 28-34. 17 ref. (NAL Call No.: QL461.G4).

1968

Flushing technique and sequential-count plan for green cloverworm (Lepidoptera: Noctuidae) moths in soybean (*Plathypena scabra*).
Pedigo, L.P. EVETB. Buntin, G.D.; Bechinski, E.J. College Park : Entomological Society of America. Environmental entomology. Dec 1982. v. 11 (6). p. 1223-1228. ill. Includes references. (NAL Call No.: QL461.E532).

1969

Microspatial distribution of pupal green cloverworms, *Plathypena scabra* (F.) (Lepidoptera: Noctuidae), in Iowa soybean fields.
Bechinski, E.J. EVETB. Pedigo, P.L. College Park : Entomological Society of America. Environmental entomology. Feb 1983. v. 12 (1). p. 273-276. ill. Includes references. (NAL Call No.: QL461.E532).

(ANIMAL ECOLOGY)

1970

Natural mortality of lepidopteran eggs and larvae in Missouri soybeans (*Trichoplusia ni*, *Glycine max*).
Marston, N.L. Hostetter, D.L.; Pinnell, R.E.; Dickerson, W.A.; Smith, D.B. College Park : The Society. Annals of the Entomological Society of America. Jan 1984. v. 77 (1). p. 21-28.
Includes references. (NAL Call No.: 420 EN82).

1971

Partial life tables of the green cloverworm (Lepidoptera: Noctuidae) in soybean and a hypothesis of population dynamics in Iowa (*Plathypena scabra*).
Pedigo, L.P. EVETB. Bechinski, E.J.; Higgins, R.A. College Park : Entomological Society of America. Environmental entomology. Feb 1983. v. 12 (1). p. 186-195. Includes references. (NAL Call No.: QL461.E532).

1972

Quantitative assessment of the predators of *Nezara viridula* eggs and nymphs within a soybean agroecosystem using an ELISA (enzyme linked immunosorbent assay, Natural control).
Ragsdale, D.W. Larson, A.D.; Newsom, L.D. College Park, Md., Entomological Society of America. Environmental entomology. June 1981. v. 10 (3). p. 402-405. 10 ref. (NAL Call No.: QL461.E532).

1973

Seasonal distribution of *Trichogramma* (Hymenoptera:Trichogrammatidae) species associated with a Maryland soybean field (*Heliothis virescens*, biological control).
Thorpe, K.W. College Park, Md. : Entomological Society of America. Environmental entomology. Feb 1984. v. 13 (1). p. 127-132. Includes references. (NAL Call No.: QL461.E532).

ANIMAL NUTRITION

1974

**Effect of feeding by Lema trivittata
(Coleoptera: Chrysomelidae) on the growth,
reproduction and competitive ability of
jimsonweed (*Datura stramonium*) in soybeans
(Abstract only).**

Peterson, B.L. Dively, G.P. Beltsville, Md.,
The Society. Proceedings - annual meeting of
the Northeastern Weed Science
Society. Northeastern Weed Science Society. p.
78.p. 78. (NAL Call No.: 79.9 N814).

ANIMAL TAXONOMY AND GEOGRAPHY

1975

Common soybean insects of Indiana / Purdue University.

Document available from: Purdue University,
Publication Mailing Room, 301 South Second
Street, Lafayette, Indiana 47905 1979. Lists
the common soybean insects. 1 sheet : ill. (NAL
Call No.: Document available from source.).(NAL
Call No.: E-85).

1976

Immature stages of *Anacamptodes herse* (Schaus) (Geometridae) on soybean in Honduras.

Passoa, S. Lawrence, Kan. : The Society.
Journal of the Lepidopterists' Society. 1983.
v. 37 (3). p. 217-223. ill. Includes
references. (NAL Call No.: 421 L554).

1977

Soybean insects : identification and management
in Illinois / Marcos Kogan, Donald E. Kuhlman.
Kogan, Marcos. Kuhlman, Donald E. Urbana, Ill.
Agricultural Experiment Station, College of
Agriculture, University of Illinois at
Urbana-Champaign 1982. "February, 1982". 58 p.
: ill. (some col.) ; 28 cm. -. (NAL Call No.:
100 IL6S (1) no.773).

VETERINARY PHARMACOLOGY, TOXICOLOGY AND IMMUNE THERAPEUTIC AGENTS

1978

Enzyme immunoassay and fluoroimmunoassay for
the herbicide diclofop-methyl (Residue analysis
of pesticides, quantification in soil, urine,
serum, wheat, soybeans, sugar beets).

Schwalbe, M. Dorn, E.; Beyermann, K.
Washington, D.C. : American Chemical Society.
Journal of agricultural and food chemistry.
July/Aug 1984. v. 32 (4). p. 734-741. ill.
Includes 17 references. (NAL Call No.: 381
J8223).

PESTS OF ANIMALS - GENERAL AND MISC.

1978

Browsing deer feed on early bean growth (Damage to soybeans).

Humphries, B. NC. Raleigh, The Station.

Research and farming - North Carolina

Agricultural Research Service.North Carolina.

Agricultural Experiment Station. Winter/Spring

1979. v. 37 (3/4). p. 7. ill. (NAL Call No.:

100 N81R).

1980

Pesticide applicator certification.

(United States? s.n.) 1982. Pesticide

Applicator Training Collection ~Title from

container ~Beta format. 4 videocassettes (ca.

60 min. each) : sd., col. ; 1/2 in. (NAL Call

No.: Videocassette no.5).

PEST OF ANIMALS - INSECTS

1981

Corn silk volatiles attract many pest species of moths (European corn borer, soybean looper, tarnished plant bug, *Cisseps fulvicollis*, and forage looper).

Cantelo, W.W. AR-BARC. Jacobson, M. New York, Marcel Dekker. Journal of environmental science and health. Part A: Environmental science and engineering. 1979. v. A14 (8). p. 695-707. ill. 19 ref. (NAL Call No.: TD172.U6).

1982

Effect of soybean trypsin inhibitor-loaded erythrocytes on fecundity and midgut protease and hemolysis of stable flies (*Stomoxys calcitrans*).

Deloach, J.R. Spates, G.E. College Park, Md., Entomological Society of America. Journal of economic entomology. Aug 1980. v. 73 (4). p. 590-594. 13 ref. (NAL Call No.: 421 J822).

1983

A six-year population survey of eye gnats (*Hippelates pusio* Loew, Diptera:Chloropidae) at a large soybean farm in northern Bay County, Florida.

Floore, T.G. Ruff, J.P. Ft. Myers, Fla. : The Association. Proceedings of the Florida Anti-Mosquito Association. 1982. v. 53 (1). p. 27-30. ill. Includes references. (NAL Call No.: 420 F663).

1984

Socio-economic factors relating to the IFA (Imported Fire Ant) and its management (*Solenopsis*, pests of livestock, fruits, vegetables, hay, soybeans, agricultural losses).

Headley, J.C. Aspelin, A.; Adams, C.T.; Brooks, T.; Brown, R.E. (Washington, D.C.?) : U.S. Dept. of Agriculture, APHIS. 1982. Proceedings of the Symposium on the Imported Fire Ant, June 7-10, 1982, Atlanta American Hotel, Atlanta, Georgia / editor S.L. Battenfield. p. 41-50.5. Includes references. (NAL Call No.: SB945.F535S9 1982).

PEST OF ANIMALS - HELMINTHS

1985

Soybean cyst nematode.

Johnson, H. G. MacDonald, D. H. & Plant pathology fact sheet. Document available from: University of Minnesota, Bulletin Room, 1420 Eckles Avenue, St. Paul, Minnesota 55108 1980. Includes field symptoms, verification, infestation, development and control for soybean cyst nematode. 1 sheet : ill. (NAL Call No.: Document available from source.).(NAL Call No.: FS No.35).

ANIMAL DISORDERS - PHYSICAL TRAUMA

1986

Black nightshade (*Solanum nigrum L.*) (Poisonous to livestock, weed of soybeans, chemical control).

Fawatt, R.S. Jennings, V.M. Champaign, Ill.
Weeds today. Spring 1979. v. 10 (2). p. 21.
ill. (NAL Call No.: SB610.W4).

FARM EQUIPMENT

1987

Applicators tested for soybean herbicide control.

Lang, R. NE. Furrer, J.D. Lincoln, The Station Farm, ranch and home quarterly. Nebraska. Agricultural Experiment Station. Winter 1980. v. 26 (4). p. 12-13. ill. (NAL Call No.: 100 N27N).

1988

New machine paves way for three trip crop (Herbicides, Cotton, soybeans).

Garner, T.H. Memphis, Tenn., Meister. Cotton. International edition. 1981. 1981. p. 70, 72. ill. (NAL Call No.: 72.8 C8214I).

1989

Recirculating (herbicide) sprayers (Control of weeds in soybeans).

Gebhardt, M.R. Champaign, Ill. Weeds today. Spring 1979. v. 10 (2). p. 18-20. ill. (NAL Call No.: SB610.W4).

1990

Soybean emergence from field seedbed environments (Soil penetration resistance, different planter and drill press-wheel tires, fungicide seed treatment).

Hummel, J.W. Gray, L.E.; Nave, W.R. St. Joseph, Mich., The Society. Transactions of the ASAE - American Society of Agricultural Engineers. July/Aug 1981. v. 24 (4). p. 872-879. ill. 9 ref. (NAL Call No.: 290.9 AM32T).

1991

Soybean seed quality as affected by impact damage (Mechanical damage during harvesting and handling).

Paulsen, M.R. Nave, W.R.; Gray, L.E. St. Joseph, Mich., The Society. Transactions of the ASAE - American Society of Agricultural Engineers. Nov/Dec 1981. v. 24 (6). p. 1577-1582, 1589. ill. 10 ref. (NAL Call No.: 290.9 AM32T).

1992

Soybean seed quality (damage) as affected by planter meters.

Nave, W.R. Paulsen, M.R. St. Joseph, Mich., The Society. Transactions of the ASAEAmerican Society of Agricultural Engineers. July/Aug 1979. v. 22 (4). p. 739-745. ill. 9 ref. (NAL Call No.: 290.9 AM32T).

1993

Storability of harvest-damaged soybeans.

Paulsen, M.R. Nave, W.R.; Mounts, T.L.; Gray, L.E. St. Joseph, Mich., The Society. Transactions of the ASAE - American Society of Agricultural Engineers. Nov/Dec 1981. v. 24 (6). p. 1583-1589. ill. 16 ref. (NAL Call No.: 290.9 AM32T).

NATURAL RESOURCES

1994

18 (4). p. 259-264. ill. 19 ref. (NAL Call No.: TD172.E52).

Differential responses of plant foliage
(*Tradescantia* sp., *Pteridium aquilinum*, *Quercus palustris*, and soybeans) to simulated acid rain
(Air pollutants, adverse effects).

Evans, L.S. Curry, T.M. Columbus, Ohio.
Botanical Society of America. American journal of botany. Sept 1979. v. 66 (8). p. 953-962.
ill. 21 ref. (NAL Call No.: 450 AM36).

1995

Effects of air pollutants (carbon monoxide, nitrogen dioxide and sulphur dioxide) on seed germinability (cocklebur (*Xanthium pensylvanicum*), pigweed (*Amaranthus retroflexus*), wild mustard (*Brassica kaber*), giant ragweed (*Ambrosia trifida*) and soybean (*Glycine max*)).

Chakrabarti, A.G. New York. Bulletin of environmental contamination and toxicology. Apr 1979. v. 21 (6). p. 749-755. ill. 8 ref. (NAL Call No.: RA1270.P35A1).

1996

Effects of sulfuric acid mist on plant canopies (Corn and soybeans, injuries).

Wedding, J.B. Ligotke, M. Washington, American Chemical Society. Environmental science & technology. July 1979. v. 13 (7). p. 875-878.
ill. 11 ref. (NAL Call No.: TD420.A1E5).

1997

Field assessment of air pollution-induced soybean yield losses (Ozone, photochemical oxidants).

Howell, R.K. Koch, E.J. Madison. Agronomy journal American Society of Agronomy. Mar/Apr 1979. v. 71 (2). p. 285-288. ill. 21 ref. (NAL Call No.: 4 AM34P).

1998

Polychlorinated biphenyls: phytotoxicity, absorption and translocation by plants, and inactivation by activated carbon (Effects on soybeans and fescue).

Weber, J.B. Mrozek, E. Jr. New York, Springer Verlag. Bulletin of environmental contamination and toxicology. Oct 1979. v. 23 (3). p. 412-417. ill. 15 ref. (NAL Call No.: RA1270.P35A1).

1999

Residence time of sulphite in SO₂ (sulfur dioxide) 'sensitive' and 'tolerant' soybean cultivars (Injuries, toxicity caused by pollutants).

Miller, J.E. Xerikos, P.B. Essex, Applied Science. Environmental pollution. Apr 1979. v.

WATER RESOURCES AND MANAGEMENT

2000

Leaf conductance and leaf-water potential relationships for two soybean cultivars grown under controlled irrigation.

Carlson, R.E. Momen, N.N. Madison. Agronomy journal American Society of Agronomy. Mar/Apr 1979. v. 71 (2). p. 321-325. illl. 27 ref. (NAL Call No.: 4 AM34P).

2001

Soil and water management in soybean production systems (Conservation tillage, erosion control, double-cropping, no-till, strip-cropping).

Buntley, G.J. Atlanta, Potash & Phosphate Institute. Better crops with plant food. Summer 1982. v. 66. p. 3-5. (NAL Call No.: 6 B46).

DRAINAGE AND IRRIGATION

2002

Effect of irrigation on quackgrass (*Agropyron repens*) interference in soybeans (*Glycine max*) (Leaf water potential, soil moisture, weed control, Minnesota).

Young, F.L.WEESA. Wyse, D.L.; Jones, R.J.
Champaign : Weed Science Society of America.
Weed science. Sept 1983. v. 31 (5). p. 720-727.
illl. Includes references. (NAL Call No.: 79.8
W41).

FOOD STORAGE

2003

Tests on Phomopsis-infected soybean seed under controlled storage conditions.

Schoen, J.F. Schlub, P. (s.l.), The Association. The News letter of the Association of Official Seed Analysts. Sept 1980. v. 54 (3). p. 78-79. 2 ref. (NAL Call No.: 61.9 AS7N).

FOOD STORAGE, FIELD CROP

2004

The effects of temperature on longevity and vitality of soybean seeds (Storage).
Bailey, Z.E. Ames, Iowa, The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1982. v. 9. p. 109-111. ill. (NAL Call No.: aSB205.S7S6).

2005

Storability of harvest-damaged soybeans.
Paulsen, M.R. Nave, W.R.; Mounts, T.L.; Gray, L.E. St. Joseph, Mich., The Society. Transactions of the ASAE - American Society of Agricultural Engineers. Nov/Dec 1981. v. 24 (6). p. 1583-1589. ill. 16 ref. (NAL Call No.: 290.9 AM32T).

FOOD COMPOSITION, FIELD CROP

2006

Inheritance of fatty acid composition in soybean seed oil (Genetic control of oil biosynthesis).
Martin, B.A. Carver, B.F.; Burton, J.W.; Wilson, R.F. Ames : The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1983. v. 10. p. 89-92. Includes references. (NAL Call No.: aSB205.S7S6).

2007

The role of the Northern Regional Research Center in the development of quality control procedures for fats and oils (Soybeans, flax, history, U.S. Department of Agriculture, Agricultural Research Service, Illinois).
List, G.R. Champaign, Ill. : The Society. Journal of the American Oil Chemists' Society. June 1984. v. 61 (6). p. 1017-1022. Includes references. (NAL Call No.: 307.8 J82).

2008

Weather damage lowers quality of soybean crop.
Urbanski, G.E. IL. Wei, L.S.; Nelson, A.I. Urbana, The Station. Illinois research - Illinois Agricultural Experiment Station. Summer 1980. v. 22 (3). p. 10-11. ill. (NAL Call No.: 100 IL64).

FEED CONTAMINATION TOXICOLOGY

2009

**Screening methodology for resistance to field
weathering of soybean seed (Genotypes,
Phomopsis pathogens, seed storability).**

Dassou, S. Kueneman, E.A. Madison, Wis. : Crop
Science Society of America. Crop science.
July/Aug 1984. v. 24 (4). p. 774-779. ill.
Includes references. (NAL Call No.: 64.8 C883).

HUMAN NUTRITION

2010

Evaluation of the nutritional quality of foods
with the red flour beetle (*Tribolium*
castaneum). II. Evaluation of corn, wheat and
processed soybean: corn preparation.
Medrano, J.F. Bressani, R. Los Altos, Calif.,
Geron-X. Nutrition reports international. July
1979. v. 20 (1). p. 11-24. ill. 19 ref. (NAL
Call No.: RC620.A1N8).

DIET AND DIET RELATED DISEASES

2011

Competitive and allelopathic effects of sunflower (*Helianthus annuus*) (Sorghum, soybean, growth inhibition, growth reduction, interference, root exudates, controlled with herbicides).

Irons, S.M. Burnside, D.C. Champaign, Ill., Weed Science Society of America. *Weed science*. July 1982. v. 30 (4). p. 372-377. ill. 26 ref. (NAL Call No.: 79.8 W41).

PARASITES OF HUMANS - INSECTS AND OTHER ARTHROPODS

2012

A six-year population survey of eye gnats
(*Hippelates pusio* Loew, Diptera:Chloropidae) at
a large soybean farm in northern Bay County,
Florida.

Floore, T.G. Ruff, J.P. Ft. Myers, Fla. : The
Association. Proceedings of the Florida
Anti-Mosquito Association. 1982. v. 53 (1). p.
27-30. illl. Includes references. (NAL Call No.:
420 F663).

POLLUTION

2013

Accumulation of fluoride by the soybean (Glycine max L. Merrill var Dare). I. Visible injury and related effects on seed yield (Hydrogen fluoride, air pollution).
Ghiasseddin, M. Hughes, J.M.; Diem, J.E.; Mason, J.W. New York, Marcel Dekker. Journal of plant nutrition. 1981. v. 3 (1/4). p. 429-440. ill. Bibliography p. 437-440. (NAL Call No.: QK867.J67).

2014

Accumulation of fluoride by the soybean (Glycine max L. Merrill var Dare). II. Accumulation in leaves, fruit, and seeds (Hydrogen fluoride, air pollution).
Ghiasseddin, M. Hughes, J.M.; Diem, J.E.; Mason, J.W. New York, Marcel Dekker. Journal of plant nutrition. 1981. v. 3 (1/4). p. 441-456. ill. 14 ref. (NAL Call No.: QK867.J67).

2015

Chlorobiphenyl movement from soil to soybean plants.
Fries, G.F. Marrow, G.S. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. July/Aug 1981. v. 29 (4). p. 757-759. 11 ref. (NAL Call No.: 381 J8223).

2016

Comparative toxicity of 131,596 chemicals to plant seeds (Corn, wild oats, cotton, soybean, radish).
Kenaga, E.E. New York, Academic Press. Ecotoxicology and environmental safety. Dec 1981. v. 5 (4). p. 469-475. Includes 5 ref. (NAL Call No.: QH545.A1E29).

2017

Effects of air pollutants on soybeans (Glycine max).
Miller, J.E. Arlington, Va. : Izaak Walton League of America, 1982. Effects of air pollution on farm commodities : proceedings of the symposium, Hyatt Regency Hotel, Washington, D.C., February 18, 1982. Literature review. p. 57-77. 6 p. ref. (NAL Call No.: QK751.S92 1982).

2018

Effects of chronic doses of ozone and sulfur dioxide on injury and yield on soybeans in open-top field chambers (Glycine max, air pollution stress).
Heagle, A.S. CRPSAY. Heck, W.W.; Rawlings, J.O.; Philbeck, R.B. Madison : Crop Science Society of America. Crop science. Nov/Dec 1983. v. 23

(6). p. 1184-1191. ill. Includes references. (NAL Call No.: 64.8 C883).

2019

Effects of simulated ozone and sulfur dioxide fumigations on soybeans in open-top field chambers (Air pollution).
Pratt, G.C. Pittsburgh, Pa. : Air Pollution Control Association. Proceedings ... APCA annual meeting. 1983. v. 1 (76th). p. 83-2.1/1-83-2.1/21. ill. Includes references. (NAL Call No.: TD881.A56).

2020

Foliar uptake and injury from saline aerosol (Peppers, tomato, soybeans).
Grattan, S.R. Maas, E.V.; Ogata, G. Madison, Wis., American Society of Agronomy. Journal of environmental quality. July/Sept 1981. v. 10 (3). p. 406-409. ill. 28 ref. (NAL Call No.: QH540.J6).

2021

Impact of ozone on soybean yield (Air pollution).
Kress, L.W. JEVQA. Miller, J.E. Madison : American Society of Agronomy. Journal of environmental quality. Apr/June 1983. v. 12 (2). p. 276-281. Includes references. (NAL Call No.: QH540.J6).

2022

Increased success of the Mexican bean beetle on field-grown soybeans exposed to sulfur dioxide (Glycine max, Epilachna varivestis).
Hughes, P.R. JEVQA. Dickie, A.I.; Penton, M.A. Madison : American Society of Agronomy. Journal of environmental quality. Oct/Dec 1983. v. 12 (4). p. 565-568. Includes references. (NAL Call No.: QH540.J6).

2023

Interaction of antioxidants with ozone and herbicide stress (Tested with navy beans, maize, and soybeans, includes phytotoxicity).
Rubin, B. AR-NC. Leavitt, J.R.C.; Penner, D.; Saettler, A.W. New York, Springer. Bulletin of environmental contamination and toxicology. Oct 1980. v. 25 (4). p. 623-629. 10 ref. (NAL Call No.: RA1270.P35A1).

(POLLUTION)

2024

Joint action of sulfur dioxide and nitrogen dioxide on foliar injury and stomatal behavior in soybean.

Amundson, R.G. Weinstein, L.H. Madison, Wis., American Society of Agronomy. *Journal of environmental quality*. Apr/June 1981. v. 10 (2). p. 204-206. ill. 12 ref. (NAL Call No.: QH540.J6).

2025

Mutagenicity of selected chemicals in soybean test systems (Includes agricultural chemicals, environmental pollutants).

Vig, B.K. Sung, R. New York, Plenum Press. *Environmental science research*. 1982. v. 24. p. 257-290. 40 ref. (NAL Call No.: TD172.E55).

2026

Open-air fumigation system for investigating sulfur dioxide effects on crops (Soybeans, air pollution effects).

Miller, J.E. Sprugel, D.G.; Muller, R.N.; Smith, H.J.; Xerikos, P.B. St. Paul, Minn., American Phytopathological Society. *Phytopathology*. Dec 1980. v. 70 (12). p. 1124-1128. ill. 14 ref. (NAL Call No.: 464.8 P56).

2027

Oxidants and acid precipitation: a method for identifying and modeling effects on United States soybean yield.

Medeiros, W.H. Moskowitz, P.D.; Coveney, E.A.; Thode, H.C. Jr. Pittsburgh, Pa. : Air Pollution Control Association. *Proceedings ... APCA annual meeting*. 1983. v. 1 (76th). p. 83-2.4/1-83-2.4/9. Includes references. (NAL Call No.: TD881.A56).

2028

Ozone and sulfur dioxide-induced changes in soybean growth (Air pollution, phytotoxicity).

Reinert, R.A. Weber, D.E. St. Paul, Minn., American Phytopathological Society. *Phytopathology*. Sept 1980. v. 70 (9). p. 914-916. 13 ref. (NAL Call No.: 464.8 P56).

2029

Plutonium contents and fluxes in a soybean crop ecosystem near a nuclear fuel chemical separations facility.

Adriano, D.C. Pinder, J.E. III; McLeod, K.W.; Corey, J.C.; Boni, A.L. Madison, Wis., American Society of Agronomy. *Journal of environmental quality*. July/Sept 1982. v. 11 (3). p. 506-511. ill. 12 ref. (NAL Call No.: QH540.J6).

2030

Response of chronically ozonated soybean plants to an acute ozone exposure (*Glycine max*, air pollution, phytotoxic component).

Johnston, J.W. Jr. Heagle, A.S. St. Paul, Minn., American Phytopathological Society. *Phytopathology*. Apr 1982. v. 72 (4). p. 387-389. Includes 10 ref. (NAL Call No.: 464.8 P56).

2031

Response of corn and soybeans to simulated saline aerosol drift from brackish water cooling towers.

Mulchi, C.L. Armbruster, J.A. Madison, Wis., American Society of Agronomy. *Journal of environmental quality*. Oct/Dec 1981. v. 10 (4). p. 541-547. Includes 21 ref. (NAL Call No.: QH540.J6).

2032

Response of corn and soybeans to soil vs. foliar-applied salts of cooling tower origin (*Zea mays*, *Glycine max*, saline aerosol, air pollution).

Armbruster, J.A. Mulchi, C.L. Madison, Wis. : American Society of Agronomy. *Journal of environmental quality*. Apr/June 1984. v. 13 (2). p. 278-282. Includes references. (NAL Call No.: QH540.J6).

2033

Response of soybeans to simulated acid rain in the field (Rhizobium nodulation).

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